

TRICOFLEX

TRICOFLEX Soft&Flex Technology Tricoflex Non Torsion Made in France

INDUSTRIAL
CATALOGUE
2024





European leader

With a strong experience that dates back 65 years, TRICOFLEX is among Europe's top leaders in the production of flexible hoses. It is in the Champagne region of France, in Vitry-le-Francois, that TRICOFLEX designs and produces the hoses for today and tomorrow, in a modern factory with a capacity of more than 100 000 km per year. TRICOFLEX today has around 200 people that are very passionate about our work, and always at the service of our customers. TRICOFLEX is a part of the EXEL INDUSTRIES group.

Quality

Quality is part of our DNA at TRICOFLEX, be it the quality of our products or the quality of our service. With an ISO 9001 certification since 1999, TRICOFLEX seeks to continuously perfect our processes in order to answer the needs of a variety of markets. From the selection of materials to delivery, passing through formulations in the compounding unit and production itself, the company as a whole is striving to achieve the highest standards of customer satisfaction.

Modern production

Each year, we produce more than twice the circumference of the Earth from our 14 production lines. Added to this impressive production capacity, is the expertise that demonstrates an advanced technology: Formulation of PVC compounds with exclusive performances, such as anti-static, cold flexibility, oil and grease resistance, high thermal resistance, chemical resistance, multi-layer co-extrusion, high resilience reinforcements for minimum deformation under pressure.



Who are we ?

Large and performing range

More than 60 hose types and 1000 items are offered as standard and available from stock. Knitted hoses, braided hoses, spiral hoses and non-reinforced hoses: TRICOFLEX offers not just the major classics, but above all we offer the exclusive specialty hoses:

TRICOFLEX and TRICOFLEX PERFORMANCE

Highly flexible water supply hoses

SUPER NOBELAIR SOFT and AIRSOFT PERFORMANCE

Extra soft and flexible hoses for all compressed air applications

TRICOCLAIR

Multipurpose hoses according to the latest European regulations

TECHNOBEL

Multi-layer hoses for transfer of chemicals

THERMOCLEAN

Hot water hoses for industrial cleaning and food processing up to 100°C

PROFILINE AQUA PLUS

Potable water hoses according to KTW-BWGL

SPIRABEL

High flow suction and delivery spiral hoses

Desire to innovate

We consider it our duty to keep our customer relations our top priority, and to further develop new hose solutions to offer to our customers. We constantly search for new materials, we conceive new hose structures, and we invest in new and better performing machinery.

We aim to strengthen the partnership with our customers by always offering advanced technology and excellent service - this is our philosophy.

TRICOFLEX® is dedicated to working with you



TRICOFLEX® has put sustainable development at the heart of its business and is taking action to reduce its environmental impact and protect our planet: our 5-year goal is to reduce our carbon footprint by 30%.

The actions we have already taken as part of our Corporate Social Responsibility (CSR) policy were recognised in 2023 with an EcoVadis silver medal, which places TRICOFLEX® in the top 25% of the best-performing companies in its sector.

Recycled waste

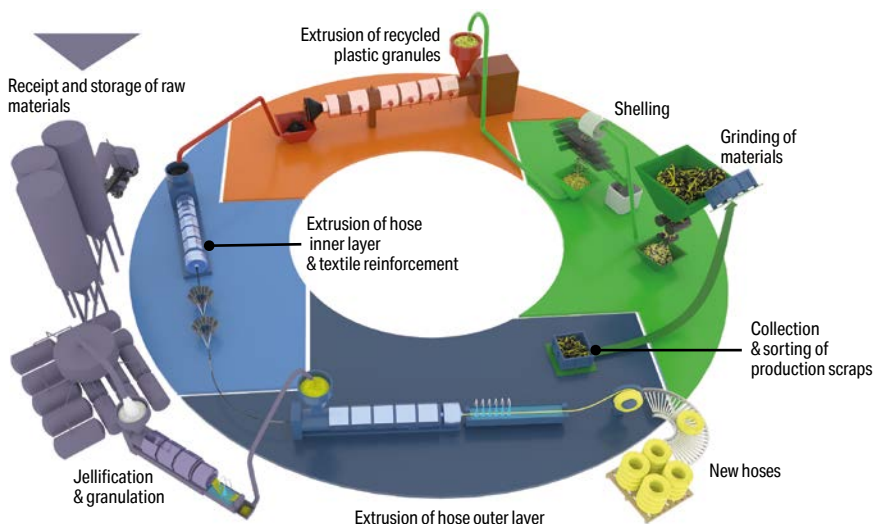
Reusing and recycling waste is a well-established part of our production chain: our offcuts are sorted then treated before being reintroduced into the hose manufacturing process.

Eco-design for more sustainable products

We manufacture our hoses at our site in Vitry-le François (Marne), guaranteeing both traceability and high-quality French manufacturing. Many of the designs incorporate reclaimed materials, which are made from our recycled waste and external materials (post-industrial waste) that we recycle beforehand. These actions have enabled us to do what's best for future generations by providing our customers with products with a lower environmental impact.

Hoses in line with regulations

To guarantee high-performance hoses, we pay particular attention to the quality of the materials we use and to the current regulations in our markets.



REACH : In order to ensure that its products are in compliance with regulations, TRICOFLEX® monitors updates to the various lists of substances subject to specific authorisation provisions, restrictions on use and/or reporting obligations required by REACH regulation no. 1907/2006, in addition to working closely with its raw material suppliers. These regular updates apply to two lists of substances:

1. The Candidate List of Substances of Very High Concern for Authorisation (or Candidate List or SVHC List)
<https://echa.europa.eu/fr/web/guest/candidate-list-table>
2. The List of Substances Subject to Authorisation (Annex XIV)
<https://echa.europa.eu/fr/authorisation-list>

TRICOFLEX® undertakes to inform its customers of the presence of SVHC substances if they are present in the article in quantities exceeding 0.1% by weight. Our entire range is guaranteed free from plasticisers on the List of Substances Subject to Authorisation. Specifically, it is free from Bis(2-ethylhexyl) phthalate (DEHP).

Furthermore, since 2017 we have guaranteed a **phthalate content of <0.1%** for most of our products bearing the "phthalates free" logo.

Drinking water certification: Our TRICOVEND and PROFILINE AQUA drinking water hoses have undergone rigorous testing by approved external laboratories and are **WRAS** and **KTW-BWGL** certified for cold (23 °C) and hot (60 °C) water respectively.

NF EN 964:2014 and EN 1947:2014 standards: Our T-694 and T-1947 hoses for firefighting meet these strict standards and have been subjected to various tests to certify their quality, flexibility and strength.



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Tube selection by application

*WP = Working Pressure
MBP = Guaranteed minimum burst pressure (bar)
**C.R.C.: chemical resistance chart pages 114 to 117

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















Transfer of
pressurised
fluids
Reinforced hoses

NEW
NEW
NEW

NEW

Application	Key features	Name of hoses	Hose range	MWP/ BP*class	Nominal bore available	Col. of C.R.C.**	Page
Multipurpose hoses		TRICOCLAIR® AL	Classic	20/60	4 → 50	A	16-17
		TCF		13/40	6,3 → 50	A	18
Compressed air	Pneumatic tools	AIRSOFT PERFORMANCE	PERFORMANCE	16/64	6,3 → 25	B	24
	Heavy duty: garages, ...	NOBELAIR® AS	FULLSOFT	16/64	7 → 12	A/B	25
	Pneumatic tools	SUPER NOBELAIR® SOFT	FULLSOFT	15/60	6,3 → 25	A	26
	Respirators	SUPER NOBELAIR®	Classic	20/60	6,3 → 25	A	27
	Pneumatic tools	NOBELAIR® AS/R		15/60	6 → 19	A/B	28
	Building trade (compressors)	AIRTOP		15/45	16 → 25		33
Medical gas	Comply with EN ISO 5359 standard	NOBELAIR® AS/R EN ISO 5359		15/60	6,3	A	29
Gas and Welding	Welding, heating	PROPA-TRESS®		20/80	6,3 → 9	A/B	34
	LPG, gas welding	GPL ISO 3821 (EN 559)		20/60	8 → 10		35
	Gas welding oxy-acetylene	SOUDAGE ISO 3821 (EN 559)		20/60	6 → 10		36
Paint	Paint	FLEXI SPRAY		20/60	3,2 → 9,5	E	38
	Compressed air	AIR JET		20/60	6,5 → 9,5	C	39
		FLEXIBLES					40
Agricultural spraying	Class 20 bar	TRESS-NOBEL 20 BAR		20/60	8 → 25	A	42
	Class 40 bar	TRESS-NOBEL 40 BAR		40/120	6,3 → 25	A	42
	Class 80 bar	SUPER TRESS-NOBEL 80 BAR		80/240	10 → 19	A	43
Fuels & oils	Clear	TRICOFUEL®	Classic	13/40	6,3 → 30	B	46
	Very flexible	TECHNOBEL® PU	FULLSOFT	20/60	6 → 32	AC/AB	47
	Available in large sizes	TECHNOBEL®	Classic	20/60	6 → 50	D/A	48
Food industry	Drinking water	TRICOVEND®	WRAS	20/60	6,3 → 25	D	59
	No transfer of taste	PROFILINE AQUA PLUS	KIWA 21 DW	16/48	10 → 25	E	52
	No transfer of taste	PROFILINE AQUA PLUS SOFT	KIWA 21 DW	16/48	13 → 25	E	53
	No transfer of taste	PROFILINE AQUA EXTRA SOFT	KIWA 21 DW	10/30	19		54
Food cleaning	Food cleaning up to 100°C	THERMOCLEAN® 100 ANTIMICROBIAL	THERMOSOFT	30/90	13 → 25	B	55
	Up to 20 bar under 70°C	THERMOCLEAN® AL 20		33/100	12 → 19	B	56
	Up to 40 bar under 70°C	SUPER THERMOCLEAN® 40		40/120	12	B	57
Water hoses	Water supply and delivery, irrigation	TRICOFLEX® PERFORMANCE	PERFORMANCE	8/20	12,5 → 25	A	64
	Water supply and delivery, irrigation	TRICOFLEX®	Classic	8/20	12,5 → 50	A	65
	Gantry installations in green houses	TRICOFLEX® R		8/24	19 → 25	A	66
	Water supply and delivery, irrigation	TRICOFLEX® YACHTING		9/23	12,5 → 19	A	67
	Building trade	IRRIFLEX		8/20	12,5 → 25	A	68
	Professionnal watering	PRIMABEL®		6/16	12,5 → 30	A	69
	Agriculture / Building trade	TRICOFLAT®		7/21	25 → 200	A	70-71
	Agriculture / Building trade	SUPER TRICOFLAT®		12/36	45 → 150	A	70-71
Fire fighting hoses		T1947		15/45	25,5		74
	Semi-rigid hoses for fire-fighting trucks Fire fighting reels	T694		7/25	19 → 33		75

Tube selection by application

Application	Key features	Name of hoses	Hose range	MWP/ BP*class	Nominal bore available	Col. of C.R.C.**	Page
 Pressurised fluids Semi-rigid tubes	Pneumatics	<i>High resistance</i>	TUBE PA CALIBRÉ	36/133	2 → 13	<i>F</i>	30-31
		<i>High flexibility</i>	TUBE PU CALIBRÉ	10/30	2,5 → 8	<i>C</i>	32
	Chemical products	<i>Vast chemical compatibility of up to 250°C</i>	TUBE PTFE	20/60	2 → 10	<i>H</i>	49
 Pressureless fluids Unreinforced flexible tubes	Multipurpose	<i>Food quality</i>	 TUBCLAIR® AL	--	2 → 60	<i>A</i>	20-21
			 CRISTAL	--	4 → 38	<i>A</i>	22
	Food industry	<i>Use up to 200°C</i>	 VITRYL® (SILICONE)	--	3 → 20	<i>G</i>	60
 High capacity suction/discharge Hoses reinforced with a spiral groove	Multipurpose	<i>Small pumps</i>	SPIRABEL® L.D.	6/18	20 → 102	<i>A</i>	78
		<i>Pumps, irrigation</i>	 SPIRABEL® S.I.	6/18	20 → 102	<i>A</i>	79
		<i>Industrial standard</i>	 SPIRABEL® S.N.T-S	5/15	20 → 151	<i>A</i>	80
		<i>Transfer of grains and low abrasive powders</i>	 SPIRABEL® S.N.T-A	7/22	40 → 60	<i>A</i>	81
		<i>Multipurpose</i>	SPIRABEL® G.M.D.S.	5/15	25 → 152	<i>A</i>	83
		<i>Refrigerated food liquids</i>	 SPIRABEL® M.D.S.F. AL	6/12	76 → 151	<i>A</i>	84
		<i>Severe use at low temperature</i>	SPIRABEL® M.D.S.E.	5/15	40 → 151	<i>A</i>	86
		<i>Abrasion resistant external spiral</i>	SPIRABEL® M.D.S.E. PERFORMANCE	4/12	51 → 151	<i>A</i>	87
		<i>Severe use for fuels and oils</i>	SPIRABEL® M.D.S.O.	9/15	25 → 102	<i>B</i>	88
		<i>Steel spiral reinforcement</i>	 SPIRE ACIER	11,5/34,5	12 → 150	<i>A</i>	89
	Special duty	<i>Seed drills</i>	SPIRABEL® S.I.S.E.	4/12	32 → 60	<i>A</i>	82
		<i>Wine making and food liquids</i>	 SPIRABEL® VENDANGES S.F.	7/21	40 → 120	<i>A</i>	85
		<i>Swimming-pools and spas</i>	SPIRABEL® BALNEO/PISCINE	7/21	32 → 63	<i>A</i>	90
		<i>High abrasive products and hydrocarbons</i>	 SPIRABEL® PU A2 (POLYURÉTHANE)	4/12	40 → 100	<i>C</i>	91
 Suction/discharge of air, gas, dust and chips Sheath with thin wall and reinforcement with a spiral groove	Flexible ductings in PVC	<i>Air, fumes</i>	GAINE GA1		25 → 63	<i>A</i>	94
		<i>Air, fumes, agricultural spraying</i>	GAINE GA2		20 → 250	<i>A</i>	95
		<i>Automatic pumps, water delivery</i>	GAINE GA3		12 → 40	<i>A</i>	96
	Flexible ductings in PU	<i>Grain and powders</i>	GAINE SPIRABEL® PU A1		30 → 200	<i>C</i>	97
		<i>Air, gas, dust and chips (steel spiral)</i>	 WINDFLEX® 400 PU		51 → 600	<i>C</i>	98
		<i>Air, gas, dust and chips (steel spiral)</i>	 WINDFLEX® 400 AS		51 → 600	<i>C</i>	99
		<i>Air, fumes, oil vapour, sawdust, chips, dried foodstuffs (metal spire)</i>	 WINDFLEX® 600 PU AL		40 → 500	<i>C</i>	100
		<i>Powders, granules, filings, chips</i>	 WINDFLEX® 805 EH		180 - 200	<i>C</i>	101
		<i>Sawdust and chips</i>	 WINDFLEX® 805 PU		30 → 600	<i>C</i>	102
		<i>Powders, granules, filings, chips</i>	 WINDFLEX® 805 AL		32 → 600	<i>C</i>	103
		<i>Powders, granules, oil vapour, abrasive particles</i>	 WINDFLEX® 806 M EL		40 → 500	<i>C</i>	104
			 WINDFLEX® 1308 PU		40 → 500	<i>C</i>	105
			 WINDFLEX® 1500		40 → 200	<i>C</i>	106
			 WINDFLEX® 2200		40 → 100	<i>C</i>	107



Orlanne, Gwenaële, Cathia and Laura,
Operators from the finishing workshop: take part in fitness walking. The rackets are just for the photo!



**AUTOREEL, MINIREEL, WATERREEL,
METAL REELS, VITON® SPRAYERS**



REELS, SPRAYERS



9

TRICOCLAIR® AL, TCF, TUBCLAIR®, CRISTAL

MULTIPURPOSE HOSES

15

AIRSOFT PERFORMANCE, NOBELAIR® AS, SUPER NOBELAIR® SOFT,
SUPER NOBELAIR®, NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359,
TUBES PA, TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE

COMPRESSED AIR, MEDICAL GAS, GAS & WELDING

23

FLEXI SPRAY, AIR JET

PAINTING

37

TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR,
SUPER TRESS-NOBEL® 80 BAR

AGRICULTURAL SPRAYING

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TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

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PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL,
THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®,
WASHING GUNS

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

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TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

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T694, T1947

FIRE-FIGHTING HOSES

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SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2)
SPIRE ACIER

SPIRAL HOSES

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DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

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AutoReel Pro

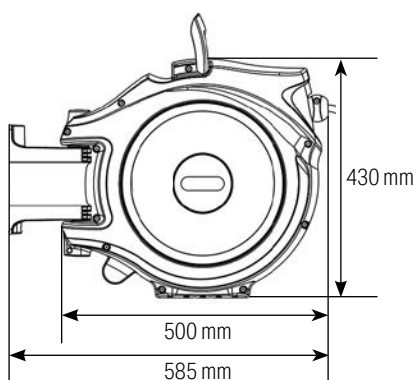
Multipurpose hose reel
air, water, (40° max), herbicides, pesticides...



Equipped with
TECHNOBEL® PU



Shell and
Wall bracket in
polypropylene
high resistance

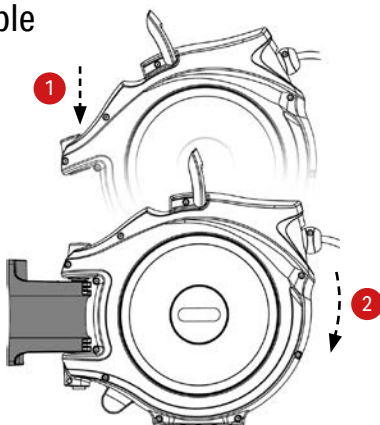


With security
locked system



With brass fittings
BSP 1/4" B.S.P.T.

Removable



Servicing workshops



Garages



Assembly factories



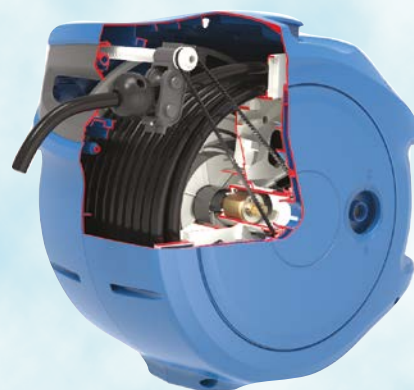
Process industries



Joinery and cabinetwork



Spraying vehicles



Swivel 180°



Automatic hose rewind



20 m
+2 m*



9,5 mm
14,5 mm



10 bar



40 bar



8 kg

* Feeder hose with BSP 1/4" thread

Ref

One unit per pack (Wall bracket included)

2501 0000

Additional Wall Bracket with fixing screw

Z 71028

MiniReel Pro

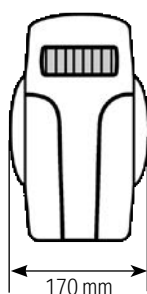
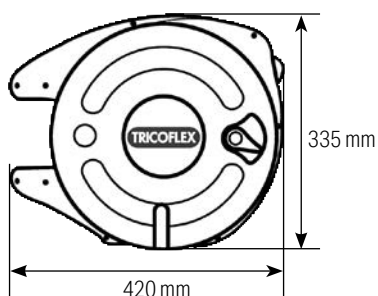
Hose reel for compressed air



Equipped with
**SUPER NOBELAIR®
SOFT**



Shell and
Wall bracket in
polypropylene
high resistance



With security
locked system



With brass fittings
BSP 1/4" B.S.P.T.

Servicing workshops



Garages



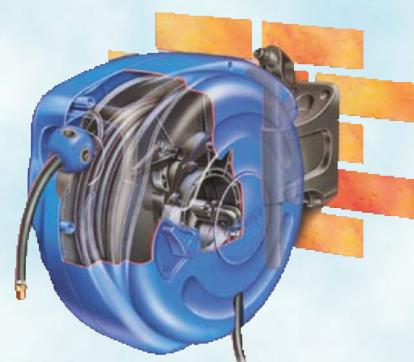
Assembly factories



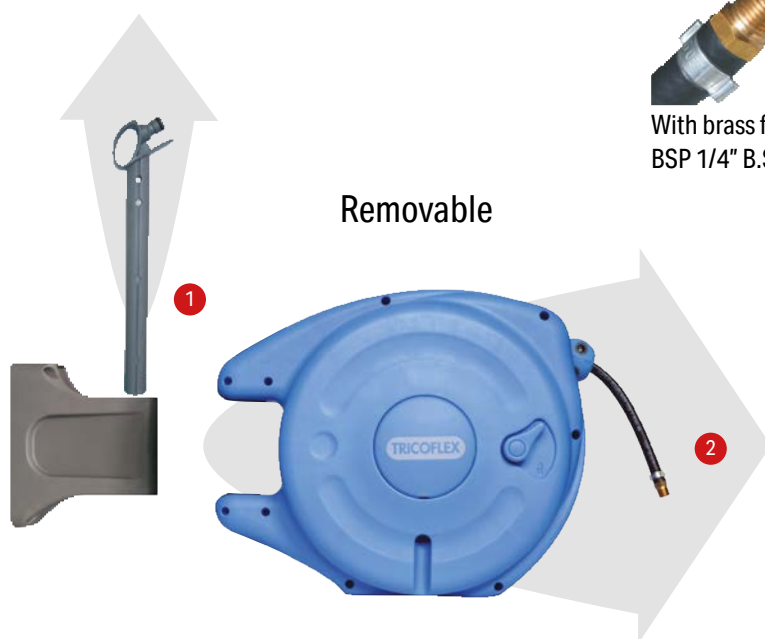
Process industries



Joinery and cabinetwork



Removable



Swivel 180°



10 m
+ 1,5 m*



8 mm
13 mm



10 bar



40 bar



4 kg

* Feeder hose with BSP 1/4" thread

Ref

One unit per pack (Wall bracket included)

2486 3460

Additional Wall Bracket with fixing screw

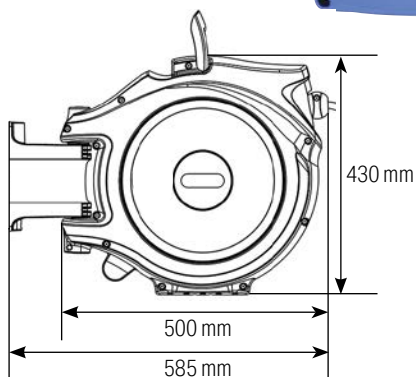
Z 71023

WaterReel Pro

Hose reel for water (Max. 50°C)

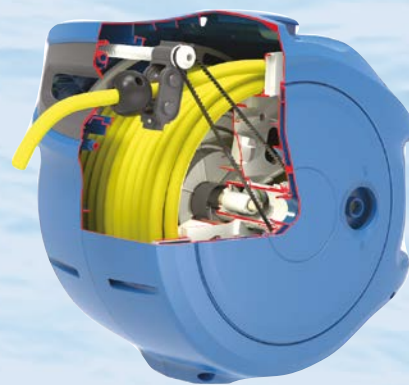


Shell and
Wall bracket in
polypropylene
high resistance



With security
locked system

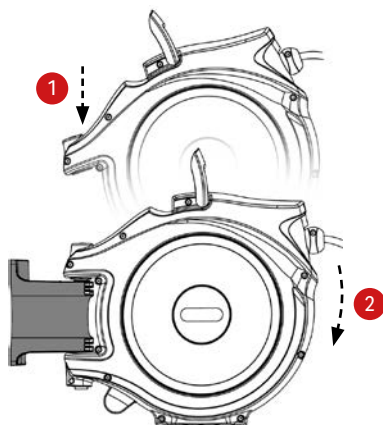
With quick connectors
and metal gun



Swivel 180°



Removable



Supplied accessories



Automatic hose rewind



18,5 m
+ 2 m*



12 mm
16,5 mm



8 bar



24 bar



8 kg

* Feeder hose with quick connectors.

Ref

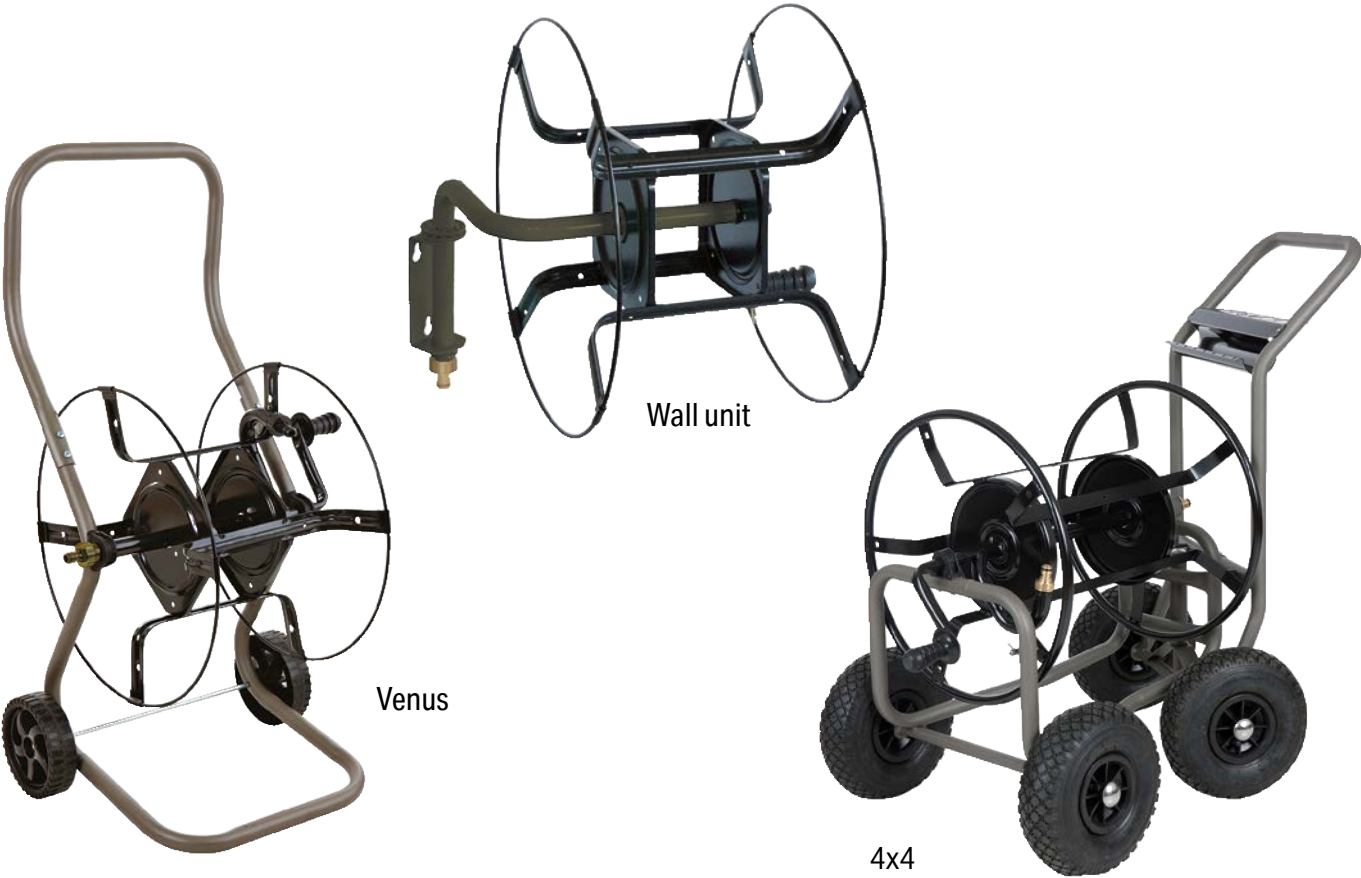
One unit per pack (Wall bracket included)

2502 0000

Additional Wall Bracket with fixing screw

Z 71028

Metal hose reels



	Wall unit	Venus	4x4
Capacity equipped with ø 15 mm	70 m	70 m	120 m
Capacity equipped with ø 19 mm	50 m	50 m	85 m
Water flow	25 mm	25 mm	25 mm
Dimensions (cm) L x W x H	48 x 46 x 36 cm	45 x 49 x 63 cm	95 x 57 x 90 cm
Use	Multi-use: watering/spraying, car-washing, storage in industrial environments, etc.	Multi-use: watering/spraying, large-surface irrigation, storage in industrial environments, etc.	Multi-use: watering/spraying, car-washing, etc.
Feature	Wall fixation. Swivel.	2 wheels ø 150 mm	4 wheels ø 260 mm (2 swivel)
Supplied accessories	2 tap connectors	2 tap connectors	2 tap connectors Accessory storage shelf
Ref	059504	059506	059505


Sprayers

For acid or alkaline solutions, solvents, hydrocarbons, agricultural and wood treatment products.



Viton® is a mark of Dupont Dow Elastomers.

	5102P0000	5310 1240	5311 1240
Capacity	1,25 L	5 L	7 L
Washer	Viton®	Viton®	Viton®
Outer pack quantity	6 pieces	1 piece	1 piece

	TRICOCLAIR® AL, TCF, TUBCLAIR®, CRISTAL	MULTIPURPOSE HOSES	15
	AIRSOFT PERFORMANCE, NOBELAIR® AS, SUPER NOBELAIR® SOFT, SUPER NOBELAIR®, NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING	23
	FLEXI SPRAY, AIR JET	PAINTING	37
	TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR, SUPER TRESS-NOBEL® 80 BAR	AGRICULTURAL SPRAYING	41
	TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS	45
	PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®, WASHING GUNS	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING	51
	TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®	WATER HOSES	63
	T694, T1947	FIRE-FIGHTING HOSES	73
	SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER	SPIRAL HOSES	77
	DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	93
		FOOD GRADE	109
		CHEMICAL RESISTANCE CHART OF HOSES	113
		INDEX PRODUCTS BY ARTICLE CODE	119
		GENERAL CONDITIONS OF SALES	129

TRICOCLAIR® AL

Classic



(EU) N°10/2011

28 | 81
bar

16



- 1 Class A flexible PVC
- 2 Polyester reinforcement
- 3 Class A flexible PVC

HIGH PERFORMANCE, MULTIPURPOSE REINFORCED, FOOD QUALITY HOSE.

High resistant three-layer design, in flexible, transparent PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Multipurpose hose suitable for numerous applications: Supplying compressed air for tools and machines, carrying industrial gases, foodstuffs, certain chemical products (industry, medical, laboratories), Supplying water (water treatment)

SERVES ALL SECTORS OF INDUSTRY INCLUDING :

Automotive industry, assembly plants, plastics industry, food production industry, construction, garages (for cars, lorries & agricultural machinery), woodworking, etc.

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

TRICOCLAIR AL Ø inn x Ø out / Ø inn x th. (EU) No 10/2011 [WP] BAR [Batch number]

ADVANTAGES

The unique formula of the materials used in TRICOCLAIR® AL provides it with flexibility, long service life, higher UV resistance and greater transparency. It is suitable for contact with food products and even alcohols up to 50 % by volume can be carried. For its part, the balanced reinforcement provides high pressure resistance with little deformation. Thus, it can withstand long and frequent pressure impulse a pressure cycles.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. Band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A. TRICOCLAIR® AL possesses broad chemical compatibility. Amongst the products compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, acetic, boric, citric, nitric, phosphoric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).



With presentation disc to Ø 13mm

TRICOCLAIR® AL

Classic

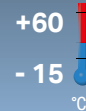


(EU) N°10/2011



28 | 81








bar



+60

- 15

°C

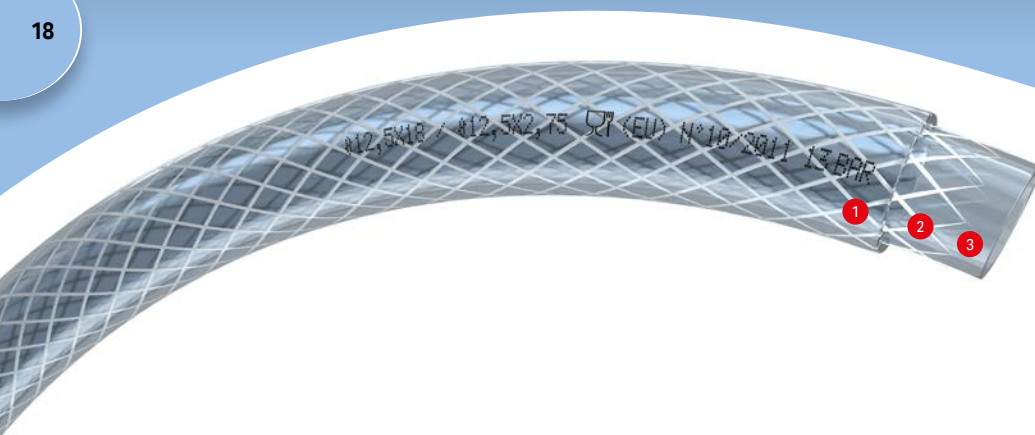
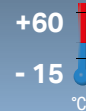
 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Transparent		
									25 m	50 m	100 m
4	+/- 0.2	8	+/- 0.4	2	45	81	27	22		050174	
6	+/- 0.2	12	+/- 0.4	3	102	66	22	36	054281	050400	
6,3	+/- 0.2	11	+/- 0.4	2,35	76	66	22	39	050084		
7	+/- 0.3	13	+/- 0.5	3	108	63	21	46	050095		
8	+/- 0.3	14	+/- 0.5	3	124	60	20	54	050106	050196	
9	+/- 0.3	15	+/- 0.5	3	135	60	20	66	054966	054955	
10	+/- 0.4	16	+/- 0.6	3	146	60	20	74	050117	050207	049960
12	+/- 0.5	19	+/- 0.6	3,5	204	60	20	90	050128	050218	
13	+/- 0.5	20	+/- 0.7	3,5	218	60	20	101	050695	050264	
15	+/- 0.5	23	+/- 0.7	4	291	60	20	120	050130	050310	103572
19	+/- 0.6	27	+/- 0.8	4	346	60	20	157	050289	050276	050277
20	+/- 0.6	28	+/- 0.8	4	361	60	20	170	050141	054270	
25	+/- 0.7	34	+/- 0.9	4,5	500	48	16	219	050466	050455	
25	+/- 0.7	36	+/- 0.9	5,5	631	52	17	225	050152	054145	
30	+/- 0.8	41	+/- 1.0	5,5	748	40	13	277	050163	050253	
32	+/- 0.8	42	+/- 1.0	5	697	36	12	320	050490	050488	
38	+/- 1.0	48	+/- 1.2	5	810	36	12	420	054933	054156	
40	+/- 1.0	52	+/- 1.2	6	1040	32	10	460	050365		
50	+/- 1.0	64	+/- 1.2	7	1467	28	9	600	050376		

TCF

18



(EU) N°10/2011



- 1 Flexible PVC
- 2 Polyester reinforcement
- 3 Flexible PVC

MULTIPURPOSE HOSE.

Three-layer design, in flexible, clear PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Multipurpose hose suitable for numerous applications: compressed air hose for supplying pneumatic tools for equipping assembly work stations, wall-mounted or mobile dispensers, compressors

ALL SECTORS OF ACTIVITY

Automotive industry, assembly plants, plastics industry, construction, garages (for cars, lorries & agricultural machinery), woodworking etc.

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

Ø inn x Ø out / Ø inn x t. (EU) No 10/2011 SIM A,B,C,D1 [WP] BAR [Batch number]

ADVANTAGES

The materials used in TCF provide it with flexibility, high transparency, UV protection. It is suitable for contact with food products and even alcohols up to 50 % by volume can be carried.

Moreover, its balanced reinforcement provides good resistance to pressure and deformation at low pressures.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. band, worm drive, screw or butterfly clamps.

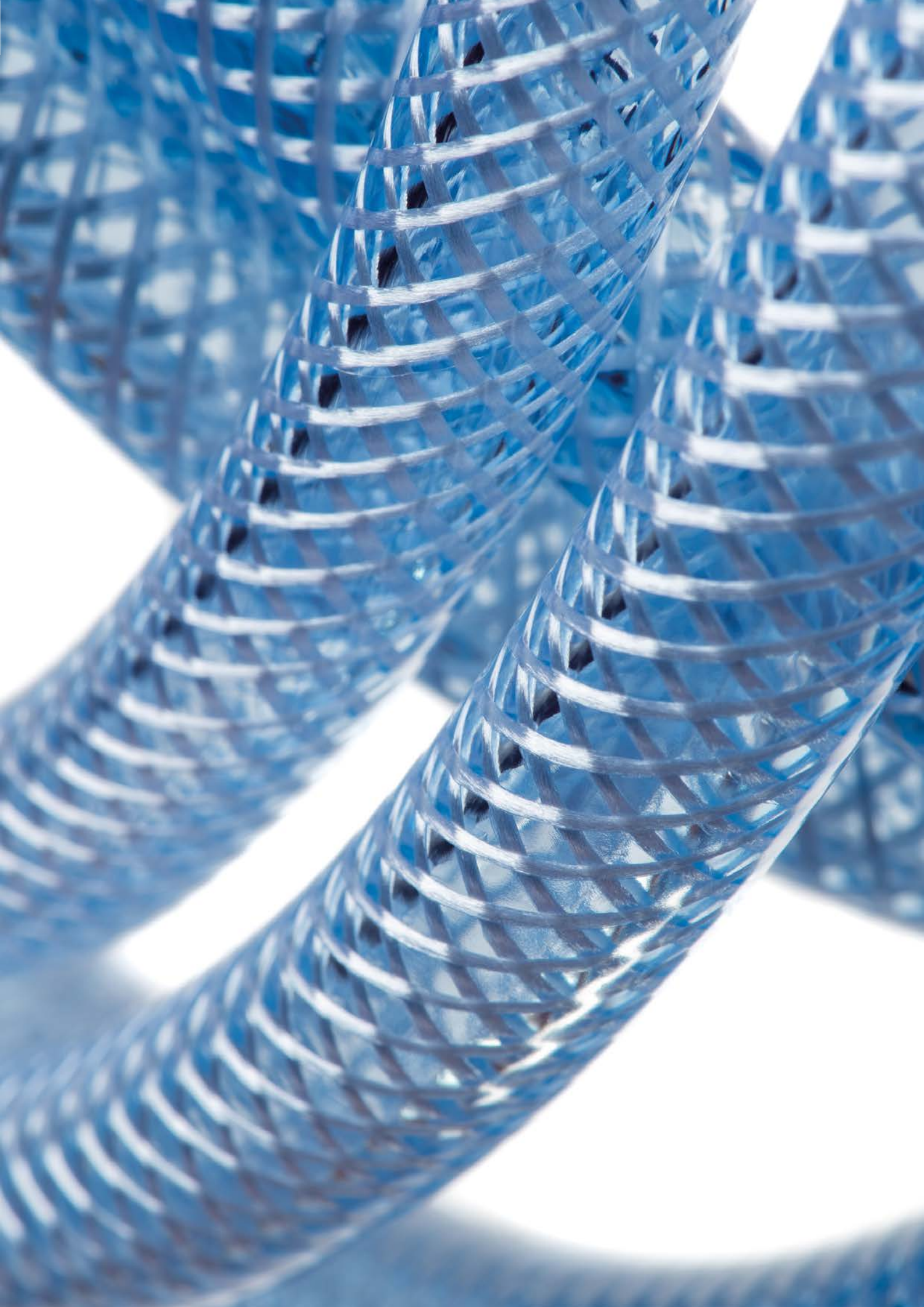
CHEMICAL RESISTANCE

TCF is suitable for various acids and alkalis. For more information please consult table pages 114 to 117 column A.

WARNING

Hydrocarbons make TCF quickly degrade. Please consult us.

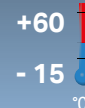
	+/- mm		+/- mm		+/- mm		+/- mm		+/- mm	Transparent		Blue	Red
										25 m	50 m	25 m	25 m
6,3	+/- 0,3	11	+/- 0,5	2,35	77	40	13	50		149621	149622		
8	+/- 0,4	13	+/- 0,6	2,5	100	40	13	65		149635	149648	125675	
10	+/- 0,4	15	+/- 0,6	2,5	120	40	13	80		149651	149664	125691	125688
12,5	+/- 0,5	18	+/- 0,7	2,75	160	40	13	110		149677	149680	125717	125704
16	+/- 0,8	22	+/- 0,8	3	217	40	13	145		149693	149706		
19	+/- 0,8	26	+/- 0,8	3,5	300	40	13	174		149712	149725		
25	+/- 0,8	33	+/- 1,0	4	444	40	13	260		149738	149741		
30	+/- 0,8	40	+/- 1,0	5	670	36	12	300		149754	149767		
32	+/- 0,8	41	+/- 1,0	4,5	629	36	12	350		149770	149783		
38	+/- 1,0	47	+/- 1,2	4,5	733	33	11	400		149796	149809		
40	+/- 1,0	50	+/- 1,2	5	865	26	8	420		149812			
50	+/- 1,0	60	+/- 1,2	5	1056	24	8	500		149825			



TUBCLAIR® AL



(EU) N°10/2011



20

TUBCLAIR AL

1 Food grade transparent PVC

SINGLE LAYER MULTIPURPOSE FOOD QUALITY TUBE IN FLEXIBLE, TRANSPARENT PVC.

APPLICATIONS

Carrying various non-pressurised liquids: water, certain acids and bases, foodstuff liquids such as milk, fruit juices, beer, wines... Carrying powdered foodstuffs

SECTORS OF ACTIVITY

Industry in general, food production industry, laboratories

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

TUBCLAIR AL (EU) No 10/2011 [Batch number]

ADVANTAGES

Designed with the finest quality materials, TUBCLAIR®AL is a flexible, very transparent, lightweight hose suitable for foodstuffs. Alcohols up to 50% by volume can even be carried, up to a temperature of 40°C. Amongst its other qualities, it has an excellent service life and benefits from higher UV protection.

TUBCLAIR® AL is available in a comprehensive range of diameters.





CONNECTORS

Barbed or serrated type connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A. TUBCLAIR® AL possesses broad chemical compatibility. Amongst those compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, sulphuric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).

WARNING : Usage for hydrocarbon leads to a loss of flexibility which can cause TUBCLAIR® AL hose degradation. Please contact us for further details.

	+/- mm			+/- mm		25 m		50 m		100 m	
						ref	by box*	ref	by box*	ref	by box*
2	±0,2	4	1	±0,2	11					147263	300m
3	±0,2	5	1	±0,2	15			147289	300m		
3	±0,2	6	1,5	±0,2	26			147305	300m		
4	±0,2	6	1	±0,2	19			147318	300m	147321	300m
4	±0,2	7	1,5	±0,2	32			147334	250m		
4	±0,2	8	2	±0,2	46			147347	150m		
5	±0,2	7	1	±0,2	23			147566	250m		
5	±0,2	8	1,5	±0,2	37	147363	200 m	094493	300m		
5	±0,3	9	2	±0,2	54					147376	300m
6	±0,3	8	1	±0,2	28			147389	200m		
6	±0,3	9	1,5	±0,2	43			147392	300m		
6	±0,3	10	2	±0,2	60			147405	300m		
6	±0,3	12	3	±0,2	102			147418	150m		
7	±0,4	10	1,5	±0,2	50			147421	300m		
8	±0,4	11	1,5	±0,2	53	147453	250 m	147466	200m	147479	300m
8	±0,5	12	2	±0,2	77			147495	300m		
9	±0,5	12	1,5	±0,2	61			147511	300m		
9	±0,5	13	2	±0,2	82			147524	200m		
10	±0,5	13	1,5	±0,2	65			147537	200m		





*Quantity per box = Minimum order

TUBCLAIR® AL



(EU) N°10/2011



 mm	+/- mm	 mm	 mm	+/- mm	 g/m	Transparent	
						25 m	50 m
10	±0.5	14	2	±0.2	90	072000	072011
10	±0.5	16	3	±0.3	146		096130
12	±0.5	15	1,5	±0.2	76		096143
12	±0.5	16	2	±0.2	105	072022	072033
12	±0.5	18	3	±0.3	169		096169
13	±0.5	17	2	±0.2	112		096185
13	±0.5	19	3	±0.3	180		096198
14	±0.5	18	2	±0.2	120		096201
15	±0.5	19	2	±0.2	127	072044	
15	±0.5	20	2,5	±0.2	164	065430	065441
15	±0.5	21	3	±0.3	202		096243
16	±0.5	20	2	±0.2	135		096269
16	±0.5	21	2,5	±0.2	174		096272
16	±0.5	22	3	±0.3	215		096285
18	±0.5	22	2	±0.2	145		096301
18	±0.5	23	2,5	±0.2	195	072066	072077
19	±0.5	24	2,5	±0.3	198		096327
19	±0.5	25	3	±0.3	255		096330
19	±0.8	26	3,5	±0.3	290		096343
19	±0.8	27	4	±0.3	338		096356
20	±0.8	24	2	±0.3	162		096362
20	±0.8	25	2,5	±0.3	215	072088	072090
20	±0.8	26	3	±0.3	252		096375
22	±0.8	28	3	±0.3	275		096388
25	±1	31	3	±0.3	320	096562	096420
25	±1	32	3,5	±0.3	380	072101	072112
25	±1	33	4	±0.4	425		096433
27	±1	33	3	±0.4	330		096462
30	±1	37	3,5	±0.4	430		096488
30	±1	38	4	±0.4	500	072123	072134
32	±1	40	4	±0.4	545	096620	
32	±1	42	5	±0.4	705	096633	
35	±1	42	3,5	±0.4	510	096646	
35	±1	43	4	±0.4	573	072145	
38	±1	48	5	±0.5	789	096662	
40	±1.5	48	4	±0.5	648	096681	
40	±1.5	49	4,5	±0.5	736	072167	
40	±1.5	50	5	±0.5	826	096694	
50	±1.5	60	5	±0.5	1045	072180	072191
60	±1.5	70	5	±0.5	1200	072202	

CRISTAL



22

(EU) N°10/2011 - Sim A, B, C

1 Food grade transparent PVC

SINGLE LAYER PVC TUBE IN FLEXIBLE, TRANSPARENT PVC.

APPLICATIONS

Carrying non fatty foodstuffs or light alcohols, non-presurised aqueous liquids

SECTORS OF ACTIVITY

Industry in general

SIMULANTS A, B, C

- fruit juices
- wines

MARKING





(EU) N° 10/2011 Sim. A, B, C [Batch number]

CONNECTORS

Barbed or serrated connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.
Not hydrocarbon resistant.

	+/-			+/-		Transparent		
						25 m	50 m	100 m
4	+/-0,2	6	1	+/-0,2	19			141040
4	+/-0,2	7	1,5	+/-0,2	31		069141	
5	+/-0,2	8	1,5	+/-0,2	37		069167	
6	+/-0,3	9	1,5	+/-0,2	43		069286	
7	+/-0,4	10	1,5	+/-0,2	49		069290	
8	+/-0,4	10	1	+/-0,2	34		069326	
8	+/-0,4	11	1,5	+/-0,2	54		069328	
8	+/-0,5	12	2	+/-0,2	75		141266	
9	+/-0,5	12	1,5	+/-0,2	60		093910	
10	+/-0,5	13	1,5	+/-0,2	66		069330	
10	+/-0,5	14	2	+/-0,2	90		141369	
10	+/-0,5	16	3	+/-0,3	147		141372	
12	+/-0,5	15	1,5	+/-0,3	77		069340	
12	+/-0,5	16	2	+/-0,3	106		069360	
15	+/-0,8	19	2	+/-0,3	130		141919	
16	+/-0,8	20	2	+/-0,3	138		141501	
16	+/-0,8	21	2,5	+/-0,3	176		141505	
19	+/-0,8	24	2,5	+/-0,3	205		141510	
20	+/-0,8	26	3	+/-0,3	260		141633	
25	+/-1,0	31	3	+/-0,3	317	141662		
30	+/-1,0	37	3,5	+/-0,4	442	141720		
38	+/-1,0	48	5	+/-0,5	818	141817		



	AIRSOFT PERFORMANCE, NOBELAIR® AS, SUPER NOBELAIR® SOFT, SUPER NOBELAIR®, NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING	23
	FLEXI SPRAY, AIR JET	PAINTING	37
	TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR, SUPER TRESS-NOBEL® 80 BAR	AGRICULTURAL SPRAYING	41
	TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS	45
	PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®, WASHING GUNS	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING	51
	TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®	WATER HOSES	63
	T694, T1947	FIRE-FIGHTING HOSES	73
	SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER	SPIRAL HOSES	77
	DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	93
		FOOD GRADE	109
		CHEMICAL RESISTANCE CHART OF HOSES	113
		INDEX PRODUCTS BY ARTICLE CODE	119
		GENERAL CONDITIONS OF SALES	129

AIRSOFT PERFORMANCE



24

AIRSOFT PERFORMANCE Ø19X26,5/Ø19X3,75 16BAR



- 1 Extra-soft smooth black non-staining and oil resistant PVC
- 2 4 Intermediate layer in extra-soft black PVC
- 3 Polyester reinforcement
- 5 Extra-soft red oil resistant PVC

HIGHLY FLEXIBLE HOSE FOR COMPRESSED AIR.

Five layers, in extra-flexible PVC, with high strength polyester reinforcement.

APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, workshops for cars, lorries and agricultural vehicles, woodwork

MARKING

AIRSOFT Ø inn x Ø out / Ø inn x th. 16 BAR [Batch number]

ADVANTAGES

AIRSOFT PERFORMANCE sets a new standard of flexibility for compressed-air use. Its innovative and exclusive structure, the result of years of TRICOFLEX's know-how, offers an exceptional hose solution that combines extreme manageability with unyielding resistance. AIRSOFT PERFORMANCE works discreetly even in cold weather.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column B.



With presentation disc to Ø 12,7mm

	+/- mm		+/- mm		g/m				Black	
									25 m	50 m
6,3	+/-0,3	11	+/-0,3	2,35	77	64	16	35	100050	100051
8	+/-0,4	13	+/-0,4	2,5	100	64	16	50	100052	100053
9	+/-0,5	14,5	+/-0,5	2,75	123	64	16	50	100054	100055
10	+/-0,5	15,5	+/-0,5	2,75	134	64	16	70	100056	100057
12,7	+/-0,6	19	+/-0,6	3,15	190	64	16	100	100058	100059
16	+/-0,6	23	+/-0,6	3,5	254	64	16	140	100060	100061
19	+/-0,8	26,5	+/-0,8	3,75	323	64	16	140	100062	100063
25	+/-1,0	33,5	+/-1,0	4,25	469	64	16	240	100064	100065

NOBELAIR® AS



NOBELAIR A.S. 16BAR ANTISTATIC



- 1 Oil and grease resistant matt blue outer covering
- 2 Textile reinforcement
- 3 Extra flexible PVC intermediate layer
- 4 Antistatic black PVC inner wall

25

ANTISTATIC PVC HOSE FOR ARDUOUS APPLICATIONS

comprising three thermoplastic layers, reinforced with a high resistant textile polyester braiding. Its inner lining is smooth and conducts electricity.

APPLICATIONS

Hose designed specially for compressed air supply in arduous conditions and/or hazardous environments: compressed air sets for pneumatic tools, small compressors, Paint spraying (air hose)

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, garages (for cars, lorries and agricultural vehicles), woodwork

Continuous use up to
70°C at 6 bar (80° at peak)
Resistivity < 10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

NOBELAIR A.S. 16BAR ANTISTATIC  [Batch number]

ADVANTAGES

NOBELAIR® AS is a top of the range hose linking comfort and resistance in use to the most arduous conditions, its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a maintained hose profile. Its coating offers protection in the event of contact with aggressive products (oils, greases, hydrocarbons, paints). The well balanced reinforcement provides it with excellent dimensional stability.

The capability of NOBELAIR® AS to dissipate electrostatic currents is a guarantee of safety in the event of usage in hazardous environments (paint booths, presence of hydrocarbons...). This capability is achieved by the addition of carbon directly into the hose material.

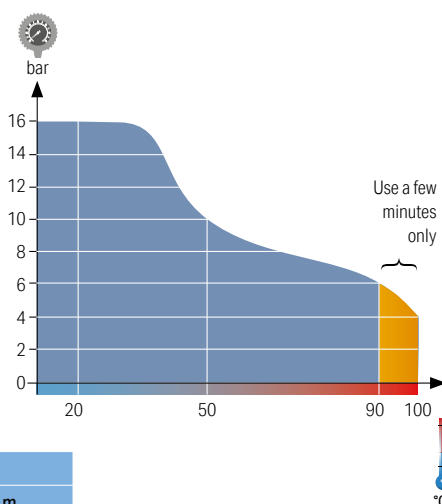
CONNECTORS







WARNING: Metal connectors must be used to maintain electrical continuity. Quick connectors, barbed or serrated insert or grooved connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column B for outer layer, col. A for inner layer.

Continuous use up to 90°C
at 6 bar (100° at peak)



	+/- mm		+/- mm		mm		g/m		bar		°C	Blue	
												20 m	40 m
8	+/- 0,4	15	+/- 0,4	3,5	168	64	16	48				147640	147655
9	+/- 0,5	16	+/- 0,5	3,5	183	64	16	54				147666	147679
10	+/- 0,5	17,5	+/- 0,5	3,75	216	64	16	60				147682	147695
12	+/- 0,6	20	+/- 0,6	4	267	64	16	72				147708	147711

SUPER NOBELAIR® SOFT



26

SUPER NOBELAIR SOFT Ø19X26,5/Ø19X3,75 15BAR

1

2

3

- 1 Extra-flexible blue PVC
- 2 Polyester reinforcement
- 3 Extra-flexible black PVC

HIGHLY FLEXIBLE HOSE FOR COMPRESSED AIR.

Three-layer design, in extra-flexible PVC, with high strength polyester reinforcement.


APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, workshops for cars, lorries and agricultural vehicles, woodwork

MARKING

SUPER NOBELAIR SOFT Ø inn x Ø out / Ø inn x th. 15 BAR  [Batch number]

ADVANTAGES

Compounds specially developed for SUPER NOBELAIR® SOFT give it a high flexibility even at low temperature. This property, associated with lightness, makes the use of this hose easier; therefore the hose is particularly appreciated by users of pneumatic tools both outdoors and indoors. PVC structure eliminates any risk of cracks (flaws of a lot of rubber hoses), making this hose long lasting.






Thanks to a well balanced reinforcement, SUPER NOBELAIR® SOFT has a high pressure resistance with little distortion under pressure. So it can withstand long and frequent impulse cycles.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

	+/- mm		+/- mm		g/m		bar		mm	Blue	
										25 m	50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	81	60	15	45		148362	147753
8	+/- 0,4	13	+/- 0,4	2,5	106	60	15	56		148375	147766
9	+/- 0,5	14,5	+/- 0,5	2,75	131	60	15	63		148388	147772
10	+/- 0,5	15,5	+/- 0,5	2,75	141	60	15	70		148391	147785
12,7	+/- 0,6	19	+/- 0,6	3,15	200	60	15	89		147956	148162
16	+/- 0,6	23	+/- 0,6	3,5	265	60	15	112		158059	158062
19	+/- 0,8	26,5	+/- 0,8	3,75	337	60	15	145		158075	158088
25	+/- 1,0	33,5	+/- 1,0	4,25	493	60	15	210		158091	158104

SUPER NOBELAIR®

Classic

60
bar

+60

- 15

°C



- 1 Flexible beige PVC
- 2 Polyester reinforcement
- 3 Flexible black PVC

27

HOSE FOR COMPRESSED AIR SUPPLY.

Three-layer design, in extra flexible PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, garages (for cars, lorries and agricultural vehicles), woodwork

MARKING

SUPER NOBELAIR  20 BAR [Batch number]

ADVANTAGES

The balanced reinforcement of SUPER NOBELAIR® enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.

The composition of this flexible and light hose provides it with good resistance to impacts and distortion.

Moreover, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS






Quick connectors, barbed or serrated connectors.

Band, worm drive, screw or butterfly clamps.

Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

	+/- mm		+/- mm		g/m		bar		mm	Beige		
										25 m	50 m	100 m
6,3	+/- 0,3	11	+/- 0,3	2,35	85	60	20	45			198022	
7	+/- 0,4	12	+/- 0,4	2,5	90	60	20	49		198051		
8	+/- 0,4	13	+/- 0,4	2,5	107	60	20	56		198093	198106	198119
10	+/- 0,5	15,5	+/- 0,5	2,75	143	60	20	70		198177	198180	
12,7	+/- 0,6	19	+/- 0,6	3,15	205	60	20	89		198212	198225	198238
16	+/- 0,6	23	+/- 0,6	3,5	284	60	20	112		198254	198267	
19	+/- 0,8	26,5	+/- 0,8	3,75	352	60	20	145		198296	198309	198312
25	+/- 1,0	33,5	+/- 1,0	4,25	515	60	20	210		198338	198341	

NOBELAIR® AS/R



28



- 1 Matt blue or green oil resistant PVC outer covering
- 2 Inner intermediate PVC layer
- 3 Textile reinforcement in polyester
- 4 Antistatic black inner PVC wall
- 5 Antistatic black inner PVC wall

REINFORCED HOSE FOR BREATHING AIR.

In accordance with EN 14593 and EN 14594 standards. Antistatic, heat resistant and five-layer construction with polyester reinforcement.

APPLICATIONS

Specially designed for compressed air supply to individual protective apparatus which are in accordance with the EN 14593 and EN 14594 standards

SECTORS OF ACTIVITY

Nuclear power plants, petrochemical industry, paint application in building and manufacturing

Resistivity $< 10^9 / m$
complies with NF EN ISO 8031

MARKING

NOBELAIRAS/R for EN14593 & EN14594 Ø inn x Ø out Breathing air hose / Antistatic / Heat resistant / Decontamination proof [Year of fabrication] [Batch number]

ADVANTAGES

NOBELAIR® AS/R hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly.

Its considerable thickness ensures a retained profile. The well balanced reinforcement provides it with excellent dimensional stability.

The antistatic inner layer of NOBELAIR® AS/R breathing air hose is a guarantee of safety if use in hazardous environments (paint booths, presence of hydrocarbons...). This capability is permanent, obtained by the addition of carbon directly into the hose material.

CONNECTORS

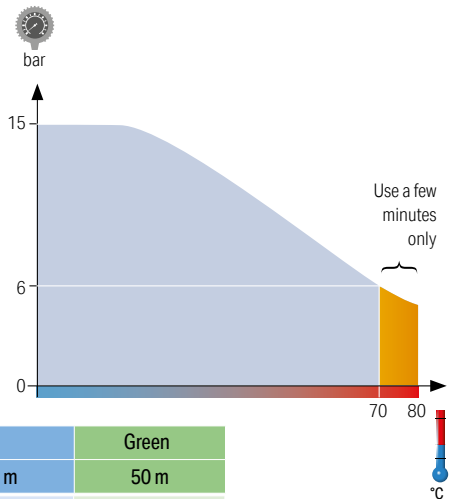
WARNING

Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

Continuous use up to 70°C
at 6 bar (80° at peak)

CHEMICAL RESISTANCE

See table pages 114 to 117 column B for outlayer, col. A for innerlayer.



	+/- mm		+/- mm		g/m		bar		bar	Blue		Green
										25 m	50 m	50 m
6	+/-0.5	12	+/-0.5	3	103	60	15	40			092843	093651
8	+/-0.5	14	+/-0.5	3	126	60	15	50		092856	092869	
10	+/-0.5	16	+/-0.5	3	148	60	15	65		092872	092885	093653
12,7	+/-0.6	19	+/-0.6	3,15	192	60	15	80			092901	
19	+/-0.8	28	+/-0.8	4,5	405	60	15	120			092927	

NOBELAIR® AS/R EN ISO 5359



- 1 Matt PVC outer covering
- 2 Inner intermediate PVC layer
- 3 Textile reinforcement in polyester
- 4 Antistatic black inner PVC wall

REINFORCED HOSE FOR MEDICAL GAS. IN ACCORDANCE WITH EN ISO 5359 STANDARDS.

APPLICATIONS

Specially designed for transfer of medical gas.

SECTORS OF ACTIVITY

Hospitals, ambulances

Resistivity < 10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

EN ISO 5359 ANTISTATIQUE [Medical gas type]  [Batch number]

ADVANTAGES

NOBELAIR® AS/R EN ISO 5359 hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a retained profile.

The well balanced reinforcement provides it with excellent dimensional stability. The antistatic inner layer is a guarantee of safety if used in hazardous environments. This capability is permanent, obtained by the addition of carbon directly into the hose material.

CONNECTORS

WARNING

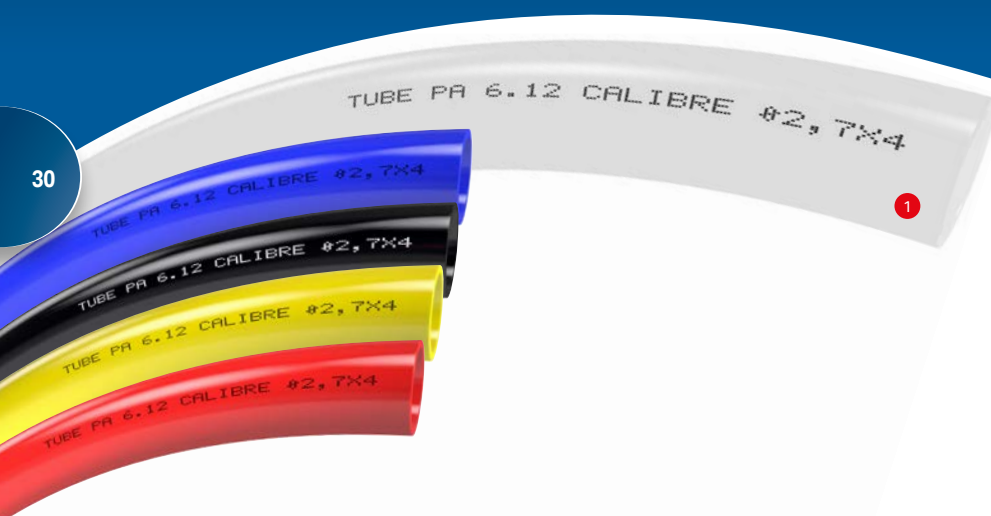
Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

										50 m	
Air	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125450	Black + White
Oxygen	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125451	White
Nitrous oxide	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125454	Blue
Vacuum	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125455	Yellow

TUBE PA CALIBRÉ POLYAMIDE



1 Yellow, blue, green, red, black or white 6.12 polyamide

HIGH PRECISION CALIBRATED POLYAMIDE TUBE.

Mono-layer design in 6.12 polyamide, translucent or colored. Smooth inner and outer surfaces.

APPLICATIONS

Pneumatic controls, transfer of fluids and liquids under pressure: chemical products, fuel and lubricants, lacquers and solvents (please consult us)

SECTORS OF ACTIVITY

Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines... laboratories

MARKING

TUBE PA 6.12 CALIBRE Ø inn x Ø out [Batch number]

ADVANTAGES

In addition to being very light, the TUBE PA provides excellent mechanical resistance to impact, fatigue, pulsing, flexing, abrasion and cutting. Its robustness gives it excellent performance under vacuum.

An active calibration process ensures its excellent dimensional accuracy.

TUBE PA is made of polyamide. The characteristics of this material ensure good general chemical resistance and excellent impermeability to gases. Its low friction factor is provided by a very smooth texture of the inner and outer surfaces.










Varied colours help to identify the different networks easily. Packaging in a cardboard cassette facilitates storage.

CONNECTORS

Shut off connectors. P.C.L. type connectors.

CHEMICAL RESISTANCE

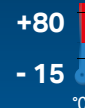
See table pages 114 to 117 column F.

Reels		(1) ø 320 mm x l. 270 mm				(2) ø 450 mm x l. 350 mm					
									L	White	
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	1000	073195 (2)	
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	600	073208 (2)	










Warning:
on reel, the hose may include two sections,
so 3 lengths could be connected.








TUBE PA CALIBRÉ POLYAMIDE










Coils in carton boxes (except * which are wrapped)

 mm	 mm	+/- mm	 mm	+/- mm	 g/m	 bar	 bar	 mm	White			
									25 m	30 m	50 m	100 m
2	4	+/- 0,1	1	+/- 0,1	9,7	133	33	24			072606	
2,5	4	+/- 0,1	0,75	+/- 0,1	8	88	26	34		072490*		
2,7	4	+/- 0,1	0,65	+/- 0,1	7	80	22	30	072494			072486
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	072516	072517*	072617	072718
5,5	8	+/- 0,1	1,25	+/- 0,1	26,7	65	16	50		072728*		
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	072538	072539*	072630	072731
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072551	072552*		072753
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72	072562		072663	072764*
12	14	+/- 0,15	1	+/- 0,1	42,1	30	7	84	072584*			072786*
13	16	+/- 0,15	1,5	+/- 0,1	70,4	41	10	96	072595*			








Coils in carton boxes (except * which are wrapped)

 mm	 mm	+/- mm	 mm	+/- mm	 g/m	 bar	 bar	 mm	Blue		
									25 m	30 m	100 m
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	073034	073035*	073001
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	073078		073012
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	073056	073055	
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72	075251		

Coils in carton boxes (except * which are wrapped)

 mm	 mm	+/- mm	 mm	+/- mm	 g/m	 bar	 bar	 mm	Black		
									25 m	30 m	100 m
2,7	4	+/- 0,1	0,65	+/- 0,1	7	80	22	30			074542
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	072876		072810
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	072854	072855*	072821
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072865		072832
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72			074961*

Coils in carton boxes

 mm	 mm	+/- mm	 mm	+/- mm	 g/m	 bar	 bar	 mm	Red		Yellow
									25 m	30 m	25 m
2,7	4	+/- 0,1	0,65	+/- 0,1	7	80	22	30	075035		075831
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	072933		
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48		072945	
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072955	072954	



TUBE PU CALIBRÉ POLYURETHANE

 +80
30 | 24
bar - 15 °C



32



1 Blue, red, black or translucent polyurethane

HIGH PRECISION CALIBRATED POLYURETHANE TUBE (HARDNESS 98 SHA).

Mono-layer design in flexible translucent or coloured polyurethane. Smooth inner and outer surfaces.

APPLICATIONS

Pneumatic controls, transfer of fluids and liquids under pressure: fuel and lubricants, lacquers and some solvents (please consult us)

SECTORS OF ACTIVITY

Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines... laboratories

MARKING

TUBE PU CALIBRE Ø inn x Ø out [Batch number]

ADVANTAGES

The calibrated PU tube is remarkable for its flexibility and lightweight. An active calibration process ensures an excellent dimensional accuracy. It has good general chemical resistance, especially for oils, hydrocarbons and some solvents. Its low friction factor is provided by the very smooth texture of the outer and inner surfaces. Varied colours help to identify the different networks easily. Packaging in a cardboard cassette facilitates storage.








CONNECTORS

Shut off connectors. P. C.L. type connectors.

CHEMICAL RESISTANCE








See table pages 114 to 117 column C.








Coils in carton boxes (except * which are wrapped)

		+/- mm		+/- mm					Translucent		Blue	
									25 m	100 m	25 m	100 m
2,5	4	+/- 0,1	0,75	+/- 0,1	9,2	30	10	12			070717	
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	070762	070775	070788	070791
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	070823		070849	
6	8	+/- 0,1	1	+/- 0,12	26,8	27	9	22	071107	071110	071123	071136
7,5	10	+/- 0,15	1,25	+/- 0,15	41,3	24	8	30	072412		072413	072354*
8	12	+/- 0,15	2	+/- 0,15	76,4	27	9	35	070936		070949	



Coils in carton boxes

		+/- mm		+/- mm					Black		Red
									25 m	100 m	25 m
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	070804		071590
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	070865		071629
6	8	+/- 0,1	1	+/- 0,12	26,8	27	9	22	071144	071155	
7,5	10	+/- 0,15	1,25	+/- 0,15	41,3	24	8	30	072425		

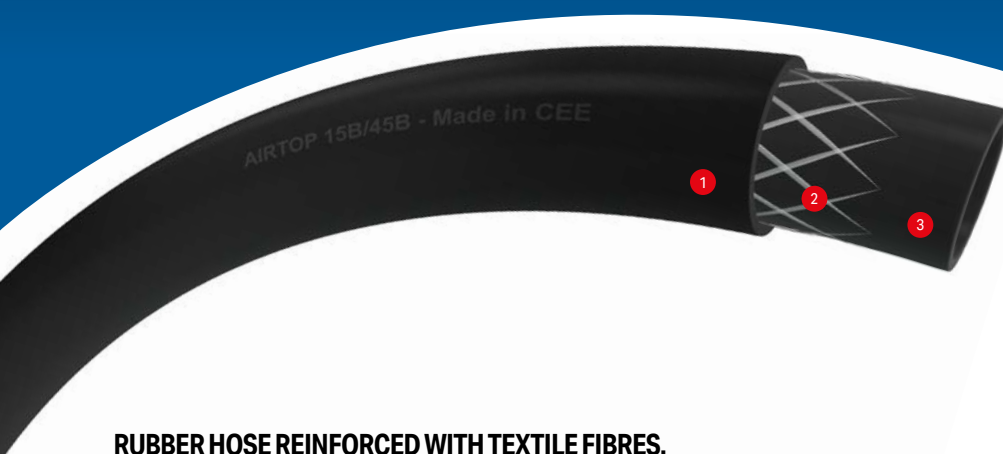
Reels		(1) Ø 320 mm x l. 270 mm				(2) Ø 450 mm x l. 350 mm					
		+/- mm		+/- mm						L	Blue
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	600	071023	



Warning:

on reel, the hose may include two sections, so 3 lengths could be connected.

AIRTOP



- 1 Black SBR cover
- 2 Polyester reinforcement
- 3 Inner surface in black NBR/SBR

RUBBER HOSE REINFORCED WITH TEXTILE FIBRES.

Made of flexible SBR and NBR, with resistant polyester fibre reinforcement.

APPLICATIONS

Compressor equipment used to supply pneumatic tools for worksite use. Normal use.

SECTORS OF ACTIVITY

Construction and civil engineering, industry

MARKING








AIRTOP PS 15 B / PLNE 45 B - Made in CEE trimestre/year of fabrication

ADVANTAGES


Due to its optimal design, AIRTOP is a hose which offers a very attractive cost/benefit ratio. Suited for all-weather use, it is the ideal hose for supplying compressed air on worksites.

CONNECTORS

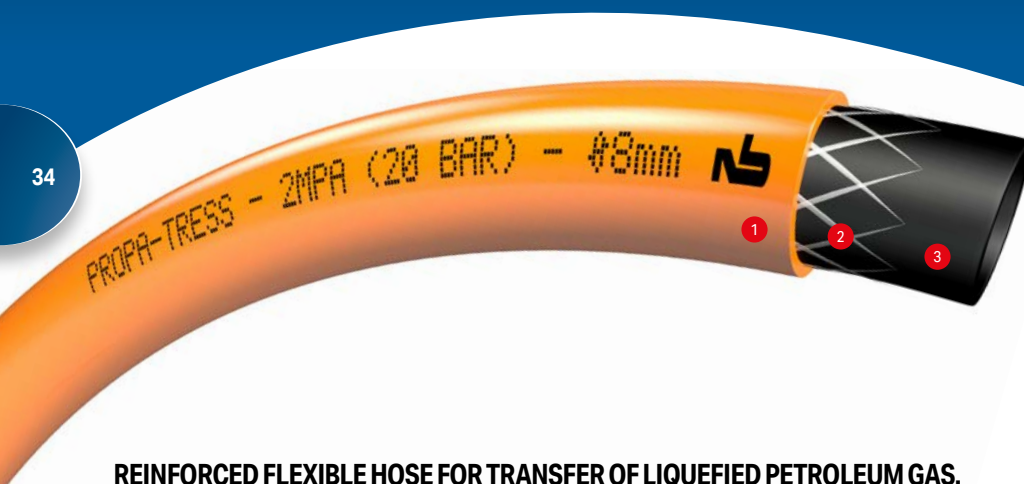
Quick fittings with claw clamps of Ø 29.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 °C	 mm	Black	
									20 m	40 m
16	+/- 0,7	23	+/- 0,7	3,5	310	45	15	160		166557
20	+/- 0,8	29	+/- 0,8	4,5	510	45	15	200	166551	166564
25	+/- 0,8	34	+/- 0,8	4,5	600	45	15	250		166559

PROPA-TRESS®



+60
- 15
°C



- 1 Flexible orange PVC coating
- 2 Textile reinforcement
- 3 Flexible black PVC core

REINFORCED FLEXIBLE HOSE FOR TRANSFER OF LIQUEFIED PETROLEUM GAS.

Three-layer design, in flexible PVC, with polyester fibre reinforcement.

APPLICATIONS

Welding and associated techniques: Propane supply to blow torches, heated paint booths, heating: infra red heaters for livestock rearing buildings heating, gas transfer (air or industrial gases)

SECTORS OF ACTIVITY

Industry, agriculture, consumer market welding and camping equipment

WARNING
DO NOT USE INDOORS

MARKING

PROPA-TRESS - 2 MPA (20bar) - Ø inn - [year of manufacturing]*- [Batch number]

* Year of production written in the marking is not a date of substitution.

ADVANTAGES

The qualities of the PVC compound provide the PROPA-TRESS® hose with flexibility, light weight, excellent resistance to ageing, and also render it impermeable to LPG.








This hose withstands repeated bending and flattening.

CONNECTORS

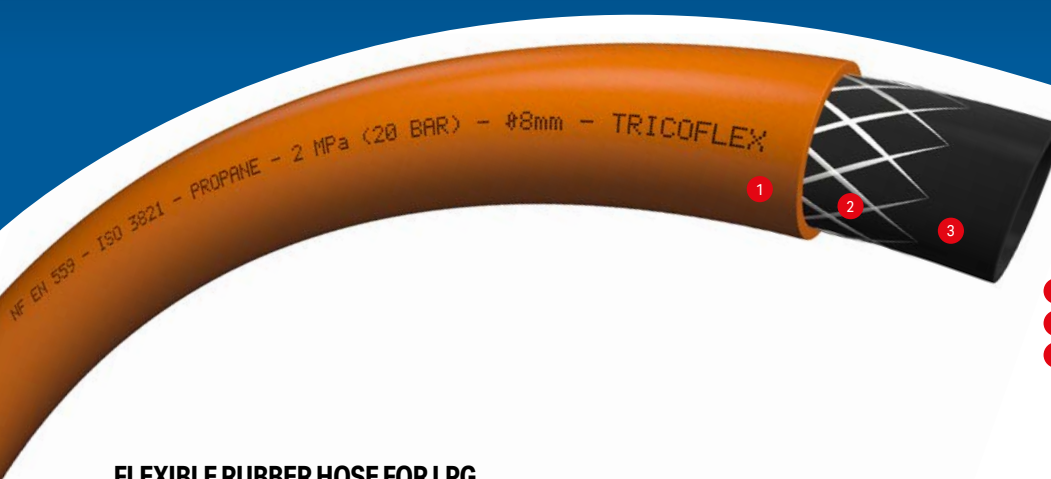
Barbed or serrated connectors and worm drive or 'O' type clamps. Crimping is possible with non damaging connectors.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A for outer layer,
column B for inner layer.

 mm	\pm mm	 mm	\pm mm	 mm	 g/m	 bar	 bar	 mm	Orange 25 m
6,3	\pm 0,4	12	\pm 0,4	2,85	98	80	20	44	051377
8	\pm 0,5	14	\pm 0,5	3	124	80	20	56	051388
9	\pm 0,5	16	\pm 0,5	3,5	164	80	20	63	051390

GPL ISO 3821 EN 559



- 1 Cover in orange soft NBR/EPDM
- 2 Textile reinforcement
- 3 Inner tube in black soft NBR

FLEXIBLE RUBBER HOSE FOR LPG.

APPLICATIONS

LPG (butane, propane...), gas welding

SECTORS OF ACTIVITY

Industry, building, shipyards

MARKING

NF EN 559 - ISO 3821 - PROPANE - 2 MPa (20 BAR) - Ø inn - TRICOFLEX - [year of manufacturing]* - made in EU








*Year of production written in the marking is not a date of substitution.

ADVANTAGES

This hose complies with ISO 3821 standard. It is very flexible (even at low temperature) and has a very good resistance to abrasion giving a longer service life. It can be used in any climatic conditions.

CONNECTORS

Usual connections for gas welding.
Worm drive or 'O' type ring clamps.
Crimping is possible with non damaging connectors.

 mm	\pm mm	 mm	\pm mm	 mm	 g/m	 bar	 bar	 mm	Orange 20 m
8	$\pm 0,5$	15	$\pm 0,7$	3,5	220	60	20	130	168426
10	$\pm 0,5$	17	$\pm 0,8$	3,5	265	60	20	150	168442

Soudage ISO 3821 EN 559



36

EN 559 - ISO 3821 - OXYGENE

EN 559 - ISO 3821 - ACETYLENE

- 1 Soft cover in blue or red SBR
- 2 Textile reinforcement
- 3 Inner tube in soft black SBR

RUBBER HOSE FOR WELDING.

Three-layer hoses, made of SBR, with textile fibre reinforcement.

APPLICATIONS

Gas welding (oxy-acetylene)

SECTORS OF ACTIVITY

Industry, Building, Shipyards

MARKING

NF EN 559 - ISO 3821 - OXYGENE - Ø inn x Ø out - 2 Mpa (20 BAR) - [year of manufacturing]* - made in CEE

MARKING

NF EN 559 - ISO 3821 - ACETYLENE - Ø inn x Ø out - 2 MPA (20 BAR) - [year of manufacturing]* - made in CEE








*Year of production written in the marking is not a date of substitution.

ADVANTAGES

Those hoses comply with ISO 3821 standard. They are very flexible (even at low temperature) and have a very good resistance to abrasion prolonging hose life. They can be used in any climatic conditions. They are available in simple tube, blue for oxygen, red for acetylene, or in a strong twin-tube construction.

CONNECTORS

Standard welding hose fittings with Worm drive or 'O' type ring clamps. Crimping is possible with non damaging connectors.

	+/-		+/-						Red	Blue
mm	mm	mm	mm	mm	g/m	bar	bar	mm	20 m	20 m
6,3	+/- 0,4	12	+/- 0,6	2,85	130	60	20	63	167881	167894
10	+/- 0,5	17	+/- 0,7	3,5	230	60	20	130	167923	167936










TWIN HOSES

MARKING

NF EN 559 - ISO 3821 - TWIN - Ø inn x Ø out / Ø inn x Ø out - 2 Mpa (20 BAR) -

[year of manufacturing]* - made in CEE

	+/-		+/-						Blue + Red	
mm	mm	mm	mm	mm	g/m	bar	bar	mm	20 m	40 m
6 / 6	+/- 0,4	13/13	+/- 0,6	3,5	350	60	20	65	167965	
10 / 10	+/- 0,5	17/17	+/- 0,8	3,5	500	60	20	100	167981	167994



	FLEXI SPRAY, AIR JET	PAINTING	37
	TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR, SUPER TRESS-NOBEL® 80 BAR	AGRICULTURAL SPRAYING	41
	TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS	45
	PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL® WASHING GUNS	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING	51
	TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®	WATER HOSES	63
	T694, T1947	FIRE-FIGHTING HOSES	73
	SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER	SPIRAL HOSES	77
	DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	93
		FOOD GRADE	109
		CHEMICAL RESISTANCE CHART OF HOSES	113
		INDEX PRODUCTS BY ARTICLE CODE	119
		GENERAL CONDITIONS OF SALES	129

FLEXI SPRAY



38

= FLEXI SPRAY - TUYAU DISSIPATEUR PEINTURE

- 1 Solvent and abrasion resistant PE coating.
- 2 Intermediate, extra-flexible crystal PE layer
- 3 Textile reinforcement
- 4 Black antistatic LDPE inner wall

ANTISTATIC EXTRA-SOFT -PVC HOSE

Design using four layers of extra-flexible PE with a high tenacity polyester fibre reinforcement.

APPLICATIONS

Antistatic pipe specially designed for paint spraying.

SECTORS OF ACTIVITY

Garages, automotive industry, plastics industry, assembly plants.

Resistivity $< 10^6 \Omega/m$
complies with NF EN ISO 8031

MARKING

= FLEXI SPRAY - TUYAU DISSIPATEUR PEINTURE_ PAINT DISSIPATER HOSE — Ø INT_ Ø Connectors ID — PMS/MWP
20BAR/290PSI @20°C/68°F - «Year of manufacturing» - MADE IN FRANCE = [Batch number]

ADVANTAGES

FLEXI SPRAY is a top end paint spraying hose. Its flexibility and light weight give more freedom of movement during use and its balanced reinforcement provides excellent stability.

FLEXI SPRAY's capacity to evacuate electrostatic charges is a safety guarantee when used in flammable environments (paint booths, presence of hydrocarbons, etc.)

Its high strength is tested on 10,000 pressure cycles to guarantee a long service life.

CONNECTORS

To protect electric continuity, provide for metal fittings: NPS, express, hose or grooved quick couplings, metal clamps or ear clamps. Quick fittings Crimping is possible with non-damaging fittings. Before assembly, make sure the tip does not damage the inner pipe (especially the case of improperly deburred and therefore cutting fittings).

CHEMICAL RESISTANCE

See the chemical resistance table column E.

	+/- mm		+/- mm		g/m		bar		°C	Orange				
										25	152,5	175	250	450
3,2	0,4	7,3	0,5	2	31	60	20	25		126018	126019			126020
6,5	0,4	10	0,5	1,8	44	60	20	50		126118	126119		126120	
9,5	0,5	14,8	0,6	2,65	92	60	20	80		126152	126153	126154		

AIR-JET



= AIR JET - TUYAU AIR DISSIPATEUR

- 1 Abrasion resistant TPU coating.
- 2 Intermediate, extra-flexible crystal TPU layer
- 3 Textile reinforcement
- 4 Black antistatic TPU inner wall

ANTISTATIC HOSE SPECIALLY DESIGNED FOR COMPRESSED AIR SUPPLIES.

Design using four layers of extra-flexible TPU with a high tenacity polyester fibre reinforcement.

APPLICATIONS

Hose specially designed for compressed air supplies in arduous and/or high risk environments: compressed air stations for pneumatic tools, compressors, paint sprayers with tanks

SECTORS OF ACTIVITY

Garages, automotive industry, plastics industry, assembly plants.

Resistivity < 10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

= AIR JET - TUYAU AIR DISSIPATEUR _DISSIPATER AIR HOSE - Ø INT _ Ø Connectors ID - PMS/MWP
20BAR/290PSI @ 20°C/68°F - «Year of manufacturing» - MADE IN FRANCE = [Batch number]

ADVANTAGES

AIR-JET's design gives it exceptional flexibility and strength. Its very light weight makes it easy to handle. Its balanced reinforcement allows it to withstand pressure with only minimal deformation. It can therefore withstand long and frequent pressure pulses, guaranteeing a long service life and safety. The inner and outer PE sheaths make it compatible with cleaning using solvents.

CONNECTORS

To protect electric continuity, provide for metal fittings: NPS, express, hose or grooved quick couplings, metal clamps or ear clamps. Quick fittings Crimping is possible with non-damaging fittings. Before assembly, make sure the tip does not damage the inner pipe (especially the case of improperly deburred and therefore cutting fittings).

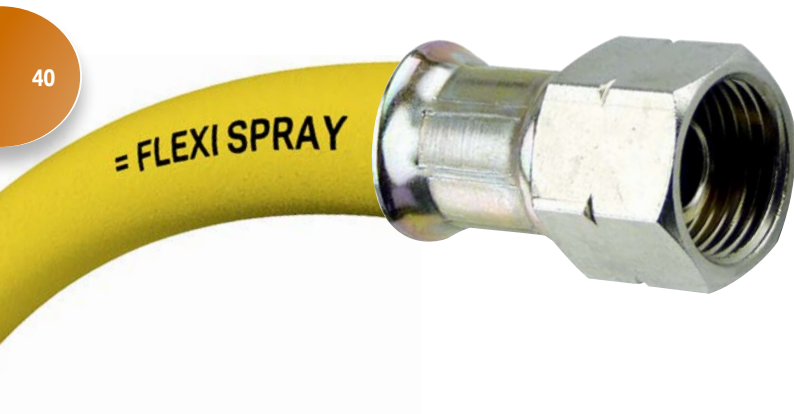
CHEMICAL RESISTANCE


See the chemical resistance table column C.

	+/- mm		+/- mm		mm		g/m		bar		°C	Turquoise				
												25 m	152,5 m	175 m	200 m	250 m
6,5	+/-0,5	10,5	+/-0,5	2	61	60	20	60					125273			125274
8	+/-0,5	12	+/-0,5	2	72	60	20	70				125285	125286		125287	
9,5	+/-0,5	14	+/-0,6	2,25	100	60	20	80					125489	125490		



FLEXI SPRAY'S ASSEMBLIES




Fittings 1/4"			
 (mm)	L (m)	Ref	Mini ord (PC/cart)
3,2	7,5	126021	15
	10	126022	10
6,5	5	126121	8
	7,5	126122	8
	10	126123	7

Fittings 3/8"			
3,2	7,5	126023	15
	10	126024	10
6,5	5	126124	8
	7,5	126125	8
	10	126126	7
9,5	5	126155	8
	7,5	126156	8
	10	126157	6

AIR JET'S ASSEMBLIES



Fittings 1/4"			
 (mm)	L (m)	Ref	Mini ord (PC/cart)
6,5	5	125275	8
	7,5	125276	8
	10	125277	7
	15	125278	4
8	7,5	125288	8
	10	125289	6
	15	125290	6
9,5	5	125491	8
	7,5	125492	8
	15	125493	4



**TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR,
SUPER TRESS-NOBEL® 80 BAR**

AGRICULTURAL SPRAYING

41

TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

45

PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL,
THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®,
WASHING GUNS

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

51

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

63

T694, T1947

FIRE-FIGHTING HOSES

73

SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2)
SPIRE ACIER

SPIRAL HOSES

77

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

93

FOOD GRADE

109

CHEMICAL RESISTANCE CHART OF HOSES

113

INDEX PRODUCTS BY ARTICLE CODE

119

GENERAL CONDITIONS OF SALES

129

TRESS-NOBEL®

+60
-15
°C



- 1 Flexible black (or blue PVC for TN 40)
- 2 Polyester reinforcement
- 3 Flexible black PVC

42

HOSE FOR AGRICULTURAL SPRAYING (20 AND 40 BAR).

Three-layer design, in flexible PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Herbicide spraying treatment of fields, paths, road-side verges, public parks... Insecticide treatment, liquid fertilizer transfer and spreading. Can also be used for compressed air supply

SECTORS OF ACTIVITY

Agriculture (motorized and towed spraying equipment), agro-chemical industries, public authorities, public works departments








TRESS-NOBEL® 20 BAR



60
bar

MARKING

TRESS-NOBEL 20 BAR Ø inn x Ø aus / Ø inn x st.  [Batch number]

	+/-		+/-						Black 50 m
8	+/-0.5	13	+/-0.5	2,5	96	60	20	56	158110
10	+/-0.5	15,5	+/-0.5	2,75	133	60	20	70	158123
12,7	+/-0.6	19	+/-0.6	3,15	180	60	20	89	158136
16	+/-0.6	23	+/-0.6	3,5	265	60	20	112	154859
19	+/-0.8	26,5	+/-0.8	3,75	337	60	20	145	158149
25	+/-1.0	33,5	+/-1.0	4,25	493	60	20	210	158178

ADVANTAGES

The balanced reinforcement of TRESS-NOBEL® enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.

Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life. TRESS-NOBEL® 20 and 40 bar hose withstands prolonged exposure to all climatic conditions.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors.


Band, worm drive, screw or 'O' type ring clamps. Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.








TRESS-NOBEL® 40 BAR



120 | 90
bar

MARKING

TRESS-NOBEL  40 BAR [Batch number]

	+/-		+/-						Blue			Black	
									25 m	50 m	100 m	50 m	100 m
6,3	+/-0.3	12,5	+/-0.3	3,1	112	120	40	44		198699			
8	+/-0.5	14,5	+/-0.5	3,25	151	120	40	56	198438	198660	198673		192724
9	+/-0.5	16	+/-0.5	3,5	181	120	40	63		198467			
10	+/-0.5	17	+/-0.5	3,5	195	120	40	70	198496	198509	198512		192753
12	+/-0.6	20	+/-0.6	4	264	120	40	84	198531	198544	198557	195821	
16	+/-0.6	24	+/-0.6	4	331	115	40	112	198599	198602		192908	
19	+/-0.8	28	+/-0.8	4,5	437	115	40	145	198631	198644		196037	
25	+/-1.0	35	+/-1.0	5	622	90	40	210	192689	192692		198815	

SUPER TRESS-NOBEL®


240
 bar


+60
- 15
 °C


- 1 Coating in flexible dark blue PVC
- 2 4 Double polyester reinforcement
- 3 5 Flexible black PVC

HOSE FOR AGRICULTURAL SPRAYING (80 BAR).

Five-layer design, in flexible PVC, with double layer. High resistant polyester fibre reinforcement.

APPLICATIONS

Herbicide spraying treatment of fields, paths, road-side verges, public parks... Insecticide treatment, liquid fertilizer transfer and spreading. Can also be used for compressed air supply

SECTORS OF ACTIVITY

Agriculture (motorized and towed spraying equipment), agro-chemical industries, public authorities, public works departments

MARKING

SUPER TRESS-NOBEL  80 BAR [Batch number]

ADVANTAGES






The double reinforcement incorporated in SUPER TRESS-NOBEL® 80 bar provides it with excellent resistance to pressure and enables it to withstand any possible pressure surges with minimal distortion. It offers good resistance to ultra violet and in general to all weather conditions. Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors (favor long end fittings). Band, worm drive, screw clamps (double up the clamps). Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

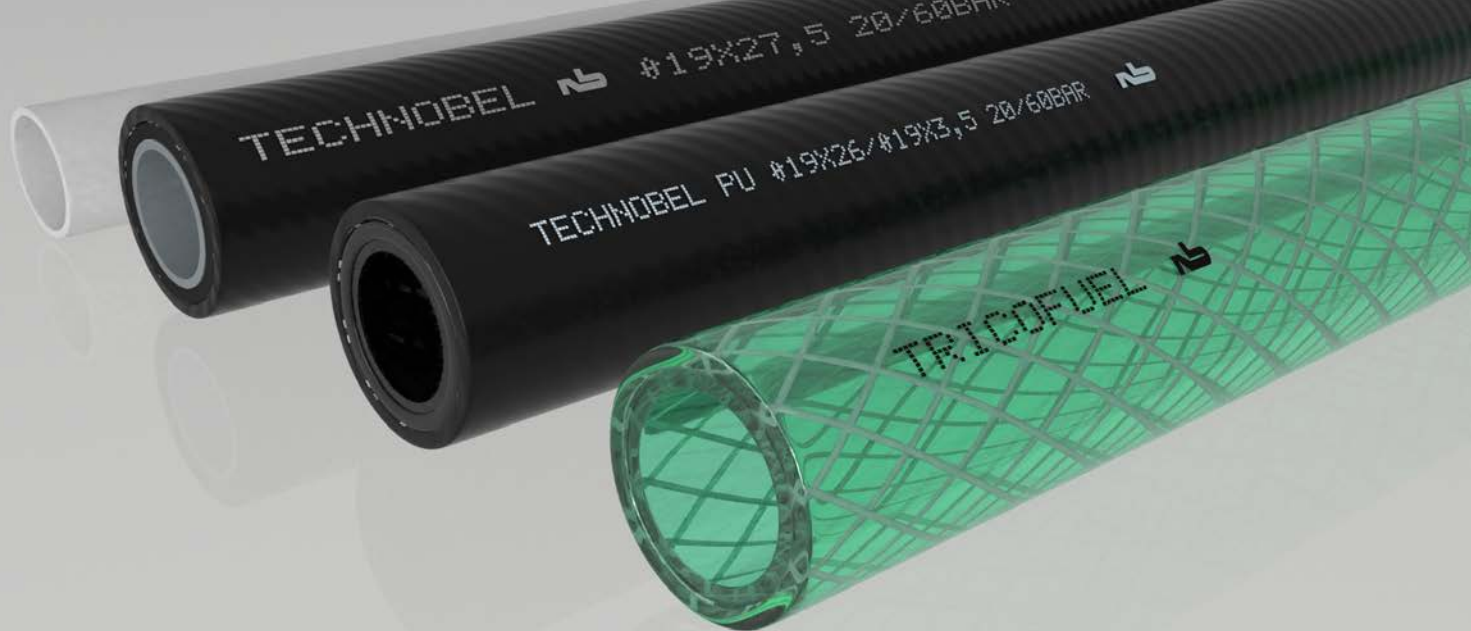
	+/- mm		+/- mm		g/m		bar		°C	Blue	
										50 m	100 m
10	+/- 0.5	19	+/- 0.5	4,5	273	240	80	70		102408	
12	+/- 0.6	22	+/- 0.6	5	356	240	80	84		102440	102453
19	+/- 0.8	30,5	+/- 0.8	5,75	581	240	80	153		102527	



Megan, (on the left)
All-round operator:
came 3rd in the European Qwan Ki Do
Championships 10 years ago,
and also enjoys working
out and running

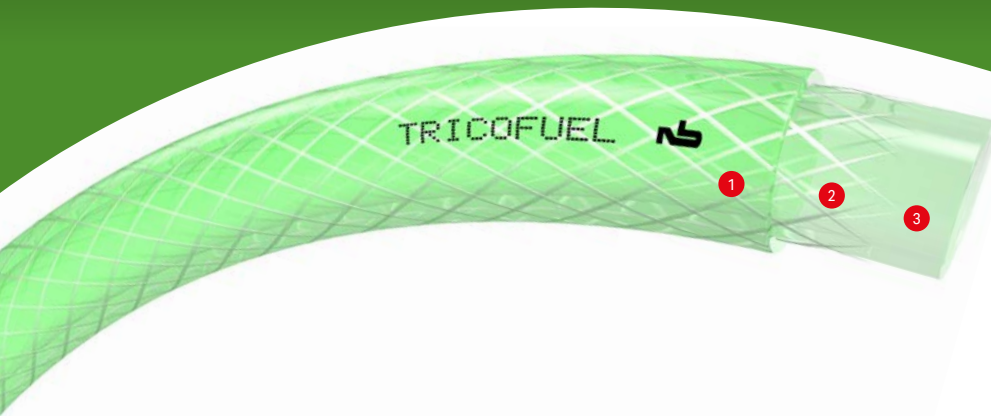
Perrine, (on the right)
Project Manager & doctor in chemistry:
likes to push herself
by taking part in triathlons





	TRICOFUEL®, TECHNABEL® PU, TECHNABEL®, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS	45
	PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®, WASHING GUNS	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING	51
	TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®	WATER HOSES	63
	T694, T1947	FIRE-FIGHTING HOSES	73
	SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER	SPIRAL HOSES	77
	DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	93
		FOOD GRADE	109
		CHEMICAL RESISTANCE CHART OF HOSES	113
		INDEX PRODUCTS BY ARTICLE CODE	119
		GENERAL CONDITIONS OF SALES	129

TRICOFUEL®

Classic


- 1 Flexible clear green PVC outer coating hydrocarbons resistant
- 2 Fibre reinforcement
- 3 Smooth clear green PVC core

TRANSPARENT HOSE FOR HYDROCARBONS.

Three-layer design, with two clear PVC layers sandwiched around a polyester fibre braiding.

46

ALL FUEL LINES:

For pumps, circulation pumps, burners, vine heaters for frost prevention, heating equipment... Transfer of certain chemical products: petrols, certain acids and certain bases, oils, alcohols... (not suitable for aromatic hydrocarbons)

ALL SECTORS OF ACTIVITY:

Automotive industry, assembly plants, plastics industry, food production industry, construction, Garages (for cars, lorries & agricultural machinery), Woodworking, etc.

MARKING

TRICOFUEL  [Batch number]

ADVANTAGES

The composition of TRICOFUEL® hose material compound is designed specially for hydrocarbon transfer. Thus, it retains its flexibility, even after intensive use. It withstands repeated bending, whilst also offering excellent resistance to ageing. The clear aspect of both the core and the coating provides for easy visual control of fluids transfer.








CONNECTORS

Band, worm drive, screw or 'O' ring clamps. Swaged fittings can be used if they do not damage the hose.

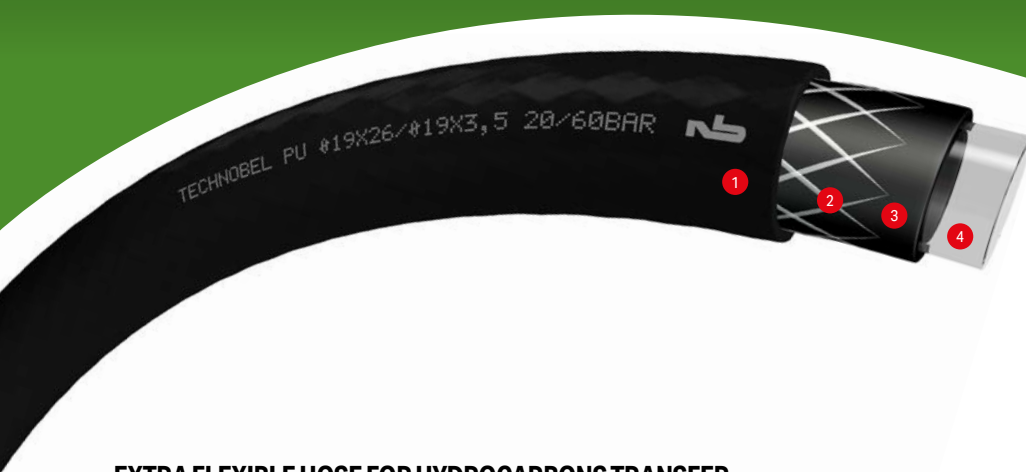
CHEMICAL RESISTANCE

TRICOFUEL® is not suitable for fuels unleaded. In this case, choose TECHNOBEL® PU (opposite) or TECHNOBEL® (p.48).

See table pages 114 to 117 column B.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Green Transparent	
									25 m	50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	81	40	13	44	050985	
8	+/- 0,5	14	+/- 0,5	3	129	40	13	56	051162	
10	+/- 0,5	16	+/- 0,5	3	152	30	10	70	051246	051259
12	+/- 0,6	19	+/- 0,6	3,5	211	30	10	84	051204	051217
15	+/- 0,6	23	+/- 0,6	4	297	30	10	105	052274	
20	+/- 0,8	28	+/- 0,8	4	373	30	10	140	052680	052693
25	+/- 0,8	32,5	+/- 0,8	3,75	420	25	8	175	050843	050856
30	+/- 1,0	39	+/- 1,0	4,5	603	25	8	210	052883	

TECHNOBEL® PU



- 1 Extra flexible black PVC (hydrocarbons resistant) or green
- 2 Polyester reinforcement
- 3 Extra-flexible PVC
- 4 Transparent polyurethane ester

EXTRA FLEXIBLE HOSE FOR HYDROCARBONS TRANSFER.

Four-layer thermoplastic design, with an inner polyurethane wall. Reinforcement formed of a high resistant polyester fibre textile braiding.


APPLICATIONS

Transfer of petrols, oils and fuels, and certain solvents, transfer of moderately abrasive products, powders and granules, agricultural spraying (insecticides, pesticides, weed killers, etc), agro-chemical industry

SECTORS OF ACTIVITY

Industry in general, agriculture

MARKING

TECHNOBEL PU Ø inn x Ø out / Ø inn x th. [PS/PLNE] BAR  [Batch number]

ADVANTAGES

The inner polyurethane layer, associated with specially formulated PVC compounds, provide excellent resistance to oils, hydrocarbons and numerous organic solvents. Moreover, the outer layer (black) provides good chemical resistance to hydrocarbons and solvent charged mist created by spraying. Finally, as the polyurethane is very resistant to abrasion and scratches (5 times greater resistance than PVC), mechanically aggressive products can also be transported by TECHNOBEL® PU hose (powders, granules, liquid mixtures...).






CONNECTORS

Quick connectors, barbed or serrated connectors. Band, worm drive, screw or butterfly clamps. Cap connectors.

Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A for green outer layer, col. B black outer layer, col. C for inner layer. TECHNOBEL® PU is formally contraindicated for the passage of acids, bases and aqueous products at temperatures above 40°C.

	+/- mm		+/- mm		g/m		bar		°C	Green	Black	
										50 m	25 m	50 m
6	+/- 0,3	11	+/- 0,3	2,5	87	60	20	40				153154
8	+/- 0,5	14	+/- 0,5	3	131	60	20	55		152845	153067	
9	+/- 0,5	15	+/- 0,5	3	146	60	20	60				153167
10	+/- 0,5	16	+/- 0,5	3	154	60	20	65			153070	
12,7	+/- 0,5	19	+/- 0,5	3,15	198	60	20	80		152864	153083	
16	+/- 0,8	23	+/- 0,8	3,5	275	60	20	110			153096	
19	+/- 0,8	26	+/- 0,8	3,5	318	60	20	140			153109	153183
25	+/- 1,0	33	+/- 1,0	4	491	45	15	180			153112	153113

TECHNOBEL®

Classic

 60 | 30
bar

 +60
- 15
°C


- 1 Flexible black PVC coating
- 2 Polyester fibre reinforcement
- 3 Flexible black PVC intermediate layer
- 4 Elastomer polyester

FLEXIBLE, RESISTANT, LOW PRESSURE MULTIPURPOSE HOSE.

Four-layer thermoplastic design with polyester fibre textile. Braided reinforcement and Thermopolymer lining.

48


APPLICATIONS

Compressed air for arduous industrial uses, transfer of certain chemical products (please consult us), agro-chemical industry

SECTORS OF ACTIVITY

Industry in general

MARKING

TECHNOBEL  \varnothing inn x \varnothing out [WP/BP] BAR [Trimestre]Q/[Year] [Batch number]

ADVANTAGES

TECHNOBEL® is a high resistant flexible hose with a polyester inner wall. This inner wall provides the TECHNOBEL® hose with resistance to a range of chemicals as a complement to the TRICOCLAIR® hose.






Thanks to its constituent materials and the quality of its reinforcement, TECHNOBEL® hose offers minimal distortion under pressure with very good ageing resistance capabilities, as well as good resistance to mechanical strains (impacts, flattening, pressure cycles).

CONNECTORS

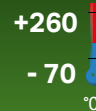
Quick connectors, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose (particular care must be taken to avoid damaging the thermoplastic lining).

CHEMICAL RESISTANCE

See table pages 114 to 117 column A for outer layer, col. D for inner layer.

	+/- mm		+/- mm		g/m		bar		°C	Black	
										25 m	50 m
6	+/- 0,3	11	+/- 0,3	2,5	89	60	20	42			135749
8	+/- 0,5	14	+/- 0,5	3	137	60	20	56			147885
10	+/- 0,5	16	+/- 0,5	3	162	60	20	75		135800	147898
12,7	+/- 0,6	19,5	+/- 0,6	3,4	228	60	20	90		135826	147930
16	+/- 0,6	23,5	+/- 0,6	3,75	307	60	20	160			135855
19	+/- 0,8	27,5	+/- 0,8	4,25	412	60	20	200		135868	147901
25	+/- 0,8	34,5	+/- 0,8	4,75	590	55	18	250		135884	147914
32	+/- 0,8	44	+/- 0,8	6	955	40	13	320			126142
50	+/- 1,0	64	+/- 1,0	7	1673	30	10	500		135984	

TUBE PTFE



1 Polytetrafluoroethylene

THIN-WALLED CALIBRATED TUBES MADE OF POLYTETRAFLUOROETHYLENE.

APPLICATIONS

For the transfer of chemical products, for the passage of fluids in high-temperature conditions.

SECTORS OF ACTIVITY

Industry, laboratories

WITHOUT MARKING

ADVANTAGES

PTFE tubes are compatible with most chemicals. Fluoropolymers give the tubes excellent dimensional stability over a wide temperature range from -70 to +260°C. They are also non-flammable and electrically insulating.

The material with the lowest coefficient of friction, PTFE has remarkable anti-stick properties and is easy to clean. PTFE tubes have a perfectly smooth inner wall. They are white and slightly translucent.








CONNECTORS

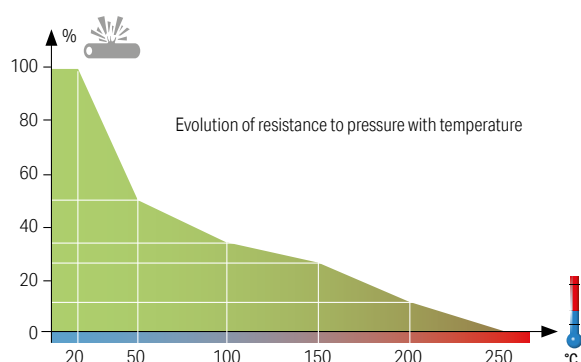
It is best to use PTFE tubes with compression fittings usually used with nylon tube.

CHEMICAL RESISTANCE

PTFE is the polymer which is compatible with the greatest number of chemicals. Acids, bases, hydrocarbons, numerous solvents, it is resistant to virtually all aggressive liquids.

See table pages 114 to 117 column H.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 °C	 bar	Translucent white		
									25 m	50 m	100 m
2	+/- 0,16	4	+/- 0,16	1	20	60	20	32	169412		
4	+/- 0,20	6	+/- 0,20	1	34	40	13	72	169457		169473
5	+/- 0,25	8	+/- 0,25	1,5	66	36	12	85	169544		
6	+/- 0,25	8	+/- 0,25	1	47	30	10	128	169486	169488	169499
8	+/- 0,30	10	+/- 0,30	1	61	24	8	200	169502		169515
10	+/- 0,30	12	+/- 0,30	1	74	20	6	288	169528		169531





Anthony,
Regulator in the Braided Hose Workshop:
won 1st prize in the Éric Favre Sport Games
International 2018





**PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, THERMOCLEAN® 100 ANTIMICROBIAL,
THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40, TRICOVEND®, VITRYL®
WASHING GUNS**

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

51

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

63

T694, T1947

FIRE-FIGHTING HOSES

73

SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2)
SPIRE ACIER

SPIRAL HOSES

77

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

93

FOOD GRADE

109

CHEMICAL RESISTANCE CHART OF HOSES

113

INDEX PRODUCTS BY ARTICLE CODE

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129

PROFILELINE AQUA PLUS



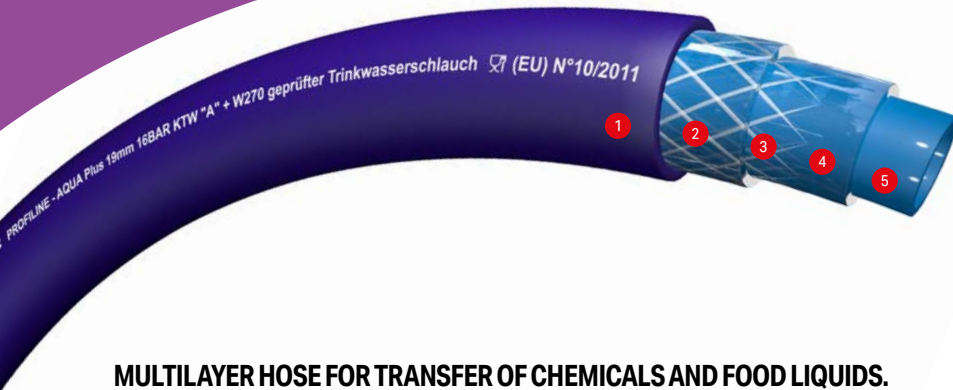
(EU) N°10/2011

48
bar

+60

- 15

°C



- 1 Cover in soft, blue and food quality-PE
- 2 4 Intermediate layers in soft, white and food quality-PE
- 3 Textile reinforcement
- 5 Inner layer in food quality-PE

MULTILAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Five-layer design made from polyethylene reinforced with polyester textile fibres. Robust and certified for use with drinking water (KTW-BWGL)

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1, D2

- fruit juices
- wines
- alcohols

- milk
- food oils



NEW CERTIFICATE 2023
KIWA-21-DW-10090-2

Instruction before use : It is recommended to flush the hose before the first use

MARKING

= PROFILELINE-AQUA PLUS ø inn 16 BAR KTW - BWGL geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number] =

ADVANTAGES

- Excellent mechanical and chemical resistance
- Inert hose; does not affect organoleptic properties
- Excellent dimensional stability

The PROFILELINE AQUA PLUS, which is chemically inert thanks to its PE inner wall, is the ideal solution for transferring liquid food and drinks, drinking water and a wide range of chemicals.

This hose was awarded KTW-BWGL certification for cold (23 °C) and hot (60 °C) water under "System 1+" of the new German drinking water regulation by an approved external laboratory.

It therefore meets the regulatory requirements with regard to:

- the materials used
- migration testing
- microbial growth testing

The PROFILELINE AQUA PLUS is the most inert hose in the Profileline Aqua range.

CONNECTORS








Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.

Crimping is possible with non-cutting connectors.

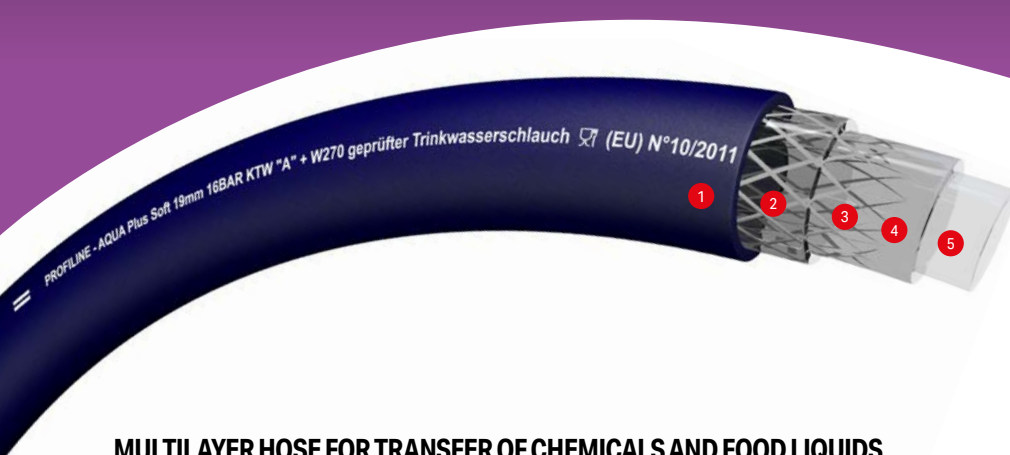
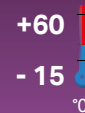
CHEMICAL RESISTANCE

See table pages 114 to 117 column E.

PROFILELINE-AQUA PLUS is compatible with a wide range of aggressive chemical products (acids, alkalis, hydrocarbons, solvents). There are, however, known incompatibilities and we do not advise PROFILELINE-AQUA PLUS to be used with the following products: Sulphuric acid smoking or bichromated, bromide chemicals, chlor-based chemicals, chromosulfonic acid, sulfonic chloride nitric acid (> 50%), gaseous flour, liquid phosgene, butylphenone, oil of camphor, sulphur trioxide.

 mm	\pm / $-$ mm	 mm	\pm / $-$ mm	 mm	 g/m	 bar	 bar	 mm	Blue 50 m
10	\pm 0.5	15	\pm 0.5	2,5	87	48	16	90	155240
13	\pm 0.5	20	\pm 0.5	3,5	161	48	16	110	155249
19	\pm 0.7	27	\pm 0.7	4	254	48	16	215	155256
25	\pm 0.8	34.5	\pm 0.8	4.75	394	48	16	295	155270

PROFILE AQUA PLUS SOFT



- 1 Cover in soft, blue and food quality-PE
- 2 4 Intermediate layers in soft, white and food quality-PE
- 3 Textile reinforcement
- 5 Inner layer in natural, food quality-PE

MULTILAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Five-layer design made from polyethylene reinforced with polyester. Flexible, highly durable and certified for drinking water (KTW-BWGL)

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1, D2

- fruit juices
- wines
- alcohols
- milk
- food oils

NEW CERTIFICATE 2023
KIWA-21-DW-10091-2

Instruction before use : It is recommended to flush the hose before the first use

MARKING

= PROFILE-AQUA PLUS SOFT ø inn 16 BAR KTW - BWGL geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number] =

ADVANTAGES

- Highly flexible
- Excellent dimensional stability
- Highly durable

The PROFILE AQUA PLUS SOFT, which is chemically inert thanks to its PE inner wall, is the ideal solution for transferring liquid food and drinks, drinking water and a wide range of chemicals.

It is KTW-BWGL certified for cold (23 °C) and hot (60 °C) water under "System 1+" of the new German drinking water regulation by an approved external laboratory. This hose therefore meets the regulatory requirements with regard to:

- the materials used
- migration testing
- microbial growth testing








More flexible than the PROFILE AQUA PLUS and offering remarkable dimensional stability, this hose is designed for applications that require small to medium bending radii.

CONNECTORS

Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps. Crimping is possible with non-cutting connectors.

CHEMICAL RESISTANCE

See table pages 114 to 117 column E. PROFILE-AQUA PLUS SOFT is compatible with a wide range of aggressive chemical products (acids, alkalis, hydrocarbons, solvents). There are, however, known incompatibilities and we do not advise PROFILE-AQUA PLUS SOFT to be used with the following products: Sulphuric acid smoking or bichromated, bromide chemicals, chlor-based chemicals, chromosulfonic acid, sulfonic chloride nitric acid (> 50%), gaseous flour, liquid phosgene, butylphenone, oil of camphor, sulphur trioxide.

 mm	\pm / $-$ mm	 mm	\pm / $-$ mm	 mm	 g/m	 bar	 bar	 mm	Blue 50 m
13	\pm 0.6	19	\pm 0.6	3	134	48	16	125	155260
19	\pm 0.7	26	\pm 0.7	3.5	221	48	16	210	155275
25	\pm 0.8	33.5	\pm 0.8	4.25	348	48	16	230	155280

PROFILELINE AQUA EXTRA SOFT



- 1 Cover in soft, blue and food quality-TPE
- 2 Intermediate layers in soft, white and food quality-TPE
- 3 Textile reinforcement
- 4 Inner layer in natural, food quality-TPE

MULTILAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Four-layer design made from flexible TPE reinforced with polyester. Highly flexible and certified for drinking water (KTW-BWGL)

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

NEW CERTIFICATE 2023
KIWA-21-DW-10092

Please ensure that the coil memory is maintained when using it to prevent kinking

Instruction before use : It is recommended to flush the hose before the first use

MARKING

= PROFILELINE-AQUA EXTRA SOFT ø inn 10 BAR KTW - BWGL geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number] =

ADVANTAGES

- Excellent flexibility
- Good dimensional stability
- Smooth surface
- Ideal for reels

The PROFILELINE AQUA EXTRA SOFT, which is chemically inert thanks to its TPE inner wall, is the ideal solution for transferring drinking water and liquid food and drinks.

This hose was awarded KTW-BWGL certification for cold (23 °C) and hot (60 °C) water under "System 1+" of the new German drinking water regulation by an approved external laboratory.

It therefore meets the regulatory requirements with regard to:

- the materials used
- migration testing
- microbial growth testing

Thanks to its TPE structure, the PROFILELINE AQUA EXTRA SOFT, which is both flexible and durable, is the ideal hose for all applications that require very small bending radii.

CONNECTORS

Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.
Crimping is possible with non-cutting connectors.

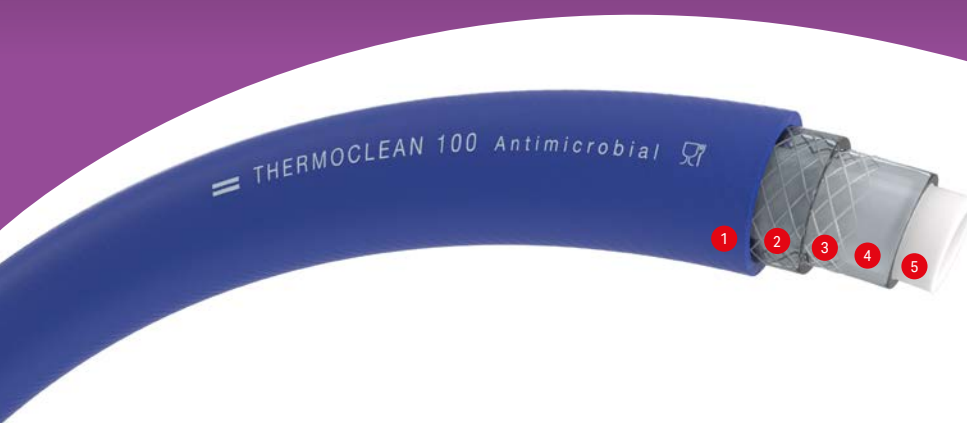
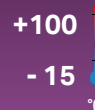
CHEMICAL RESISTANCE

The PROFILELINE AQUA EXTRA SOFT is mainly designed for drinking water. It can also be considered as chemically resistant to standard household cleaners based on weak acids, low concentrations of oxidizing agents and weak alkaline solutions. Please, contact us.

19	+/- 0,7	26	+/- 0,7	3,5	221	30	10	240	Blue 50 m 155124



THERMOCLEAN® 100 ANTIMICROBIAL



- 1 Blue coating in PVC Soft, food-grade and antimicrobial non-staining, anti-grease, and resistant to detergents and disinfectants solutions.
- 2 4 High adherence food-grade layer
- 3 High tenacity polyester textile reinforcement
- 5 Soft white PVC antimicrobial and food-grade inner tube resistant to detergents and disinfectants solutions.

NEW GENERATION TUBE FOR WASHING UP TO 100°C CONTINUOUSLY.

Five-layer design based on high thermal resistance food-grade materials and high adherence system between the inner tube and the outer layers. Resists grease and conventional detergent and disinfectant solutions. With an isolating thermal lining the risk of being scolded is reduced.

APPLICATIONS

Industrial cleaning, carrying foodstuffs

SECTORS OF ACTIVITY

Food Processing, dairy industry, shopkeepers, craftsmen, slaughterhouses, industrial uses

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

= THERMOCLEAN® 100 ANTIMICROBIAL (EU) N°10/2011 ALIMENTAIRE Ø inn [WP] bar / 100°C [Batch number] =

ADVANTAGES

THERMOCLEAN® 100 ANTIMICROBIAL is more flexible and more resistant at high temperature. It is a safety tube: it stands thermal shocks, hammering, cyclic pressure and deformation particularly well up to 100°C continuously and even up to 120°C intermittently as a recyclable and non-staining material that is resistant to several agri-food industry cleaning solutions, it is the new standard for professional cleaning.

The THERMOCLEAN® 100 ANTIMICROBIAL keeps its performance at high temperatures and prevents bacteria from developing.










CONNECTORS

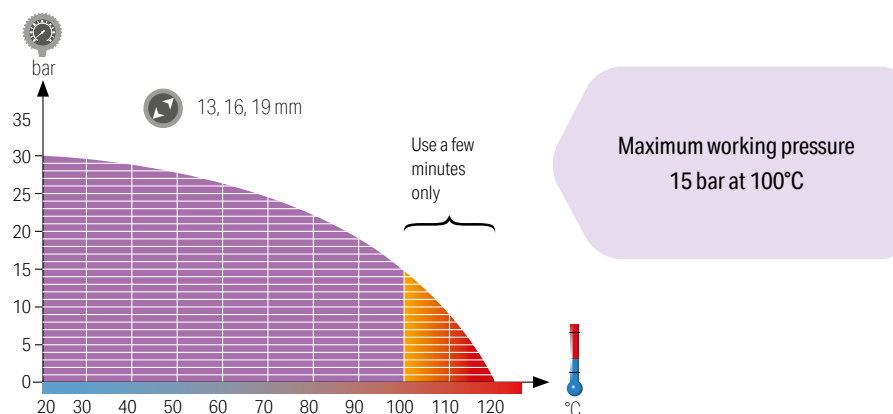
THERMOCLEAN® 100 ANTIMICROBIAL can be equipped with all types of connectors assembled with clamps. Caution: please make sure that the following precautions are followed:

- The connectors should be safe to handle; the tail should have a length that is at least twice that of the inside diameter.
- In the case of clamp fixation, it is recommended that two clamps be used and that they be retightened after first use.
- Crimping is the most adequate solution (please consult us).

CHEMICAL RESISTANCE

See table pages 114 to 117 column B.

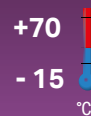
 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 20°C bar	 100°C bar	 20°C bar	 100°C bar	 mm	Blue	
											20 m	40 m
13	+/- 0,6	22	+/- 1,0	4,5	306	90	45	30	15	80	145571	145584
16	+/- 0,8	25	+/- 1,0	4,5	358	90	45	30	15	95	145655	145668
19	+/- 0,9	28	+/- 1,25	4,5	408	90	45	30	15	115	145671	145684
25	+/- 1,0	34	+/- 1,25	4,5	513	78	39	26	13	150	145597	145697



THERMOCLEAN® AL 20



(EU) N°10/2011

100
bar

+70

- 15

°C



- 1 Blue soft PVC cover, food grade, non-staining, greaseproof, resistant to detergents and disinfectants
- 2 Adhesion layer in food grade soft PVC
- 3 Polyester fibre reinforcement
- 4 Adhesion layer in food grade soft PVC
- 5 White soft PVC, food grade, resistant to detergents and disinfectants

HOT WATER CLEANING HOSE FOR MEDIUM PRESSURE (20 BAR TO 70°C).

Five-layer structure. Non-staining blue outer cover with high resistance polyester fibre reinforcement. Special intermediate adhesive layer and white inner layer with high temperature performance.

APPLICATIONS

Industrial cleaning in industry and food industry

SECTORS OF ACTIVITY

Food processing industries (dairies, slaughterhouses, etc), local communities (canteens, refectories, kitchens...), shopkeepers (butcher's, fish shops, markets...)

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

THERMOCLEAN® AL 20 (EU) N° 10/2011 20 BAR / 70°C [year of fabrication] [Batch number]

ADVANTAGES

Material properties used to manufacture THERMOCLEAN® AL 20 make it a high performance, safe and reliable hose capable to withstand heavy duty applications:

- high temperature performance (up to 70°C under 20 bar continuously, peaks possible up to 80°C); four highly flexible polymer components provide excellent handling;
- non-staining blue outer cover is resistant to oils, grease and detergents;
- food-grade quality.

CONNECTORS

Barbed connectors with two O clips (O clips should be recrimped after first use).

Swaged connectors with ferrules is possible.

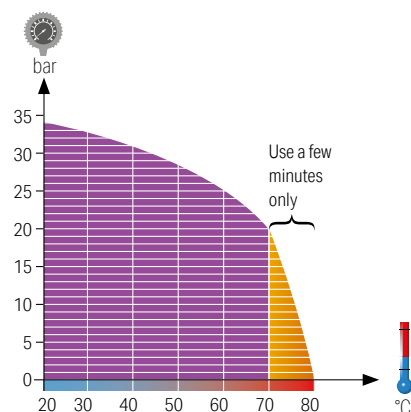
RECOMMENDATION

To ensure a better connection, we recommend assembly after the hose end has been put in hot water at 60°C for 30 seconds.

CHEMICAL RESISTANCE

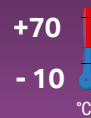
See table pages 114 to 117 column B.

	+/-		+/-									Blue	
												25 m	100 m
12	+/- 0.6	20	+/- 0.6	4	236	100	60	33	70°C	20	108	100236	100237
16	+/- 0.6	24	+/- 0.6	4	311	100	60	33	70°C	20	144	100268	
19	+/- 0.8	28	+/- 0.8	4,5	409	100	60	33	70°C	20	171	100284	



Maximum working pressure
20 bar at 70°C

SUPER THERMOCLEAN® 40



- 1 Blue cover in flexible, non-staining, greaseproof, detergent and disinfectant resistant food grade PVC
- 2 4 Double polyester reinforcing
- 3 5 Intermediary layers in flexible PVC
- 6 Inner surface in flexible grey PVC

AVERAGE PRESSURE INDUSTRIAL WASHING HOSE (40 BAR AT 70°C).

Six-layer design with double polyester fibre reinforcing.

APPLICATIONS

Industrial cleaning

SECTORS OF ACTIVITY

Dairy industry, communities, shopkeepers, craftsmen, slaughterhouses, industrial uses

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

SUPER THERMOCLEAN® 40 BAR / 70°C (EU) N° 10/2011 [year of fabrication] [Batch number]

ADVANTAGES

Super material properties of SUPER THERMOCLEAN® 40 make it a high-performance, safe and reliable hose capable of meeting severe conditions:

- exceptional temperature performance (up to 70°C under 40 bar continuously, peaks possible up to 80°C);
- six highly flexible layers provide excellent handling;
- non-staining blue outer surface is resistant to oily products and detergents;
- excellent kinking resistance.

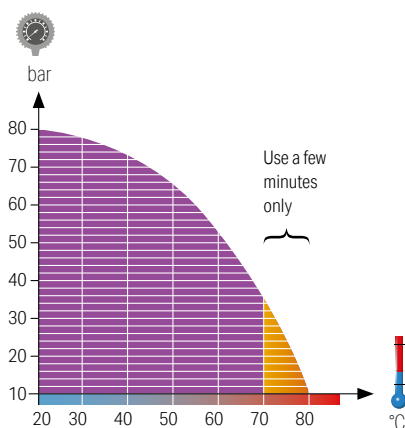
CONNECTORS

Barbed connectors with 'O' type clips (retighten the clips after first high temperature use). Crimping is possible under certain conditions (please consult us).

CHEMICAL RESISTANCE

See table pages 114 to 117 column B.

12	+/- 0.6	22	+/- 0.8	5	335	240	120	80	40	84	Blue		
											25 m	50 m	100 m
											100758	100761	100774



Maximum working pressure
40 bar at 70°C

TRICOVEND®



Guaranteed safe drinking water



WATER SUPPLIES FOR CARAVANS



MOBILE DRINK DISPENSERS



DRINK PREPARATION AT SNACK BARS



TRICOVEND®

new



80 | 45

bar

+85

-15

°C

TRICOVEND 20 BAR W.R.A.S.

- 1 White shiny flexible PVC coating
- 2 Polyester fibers reinforcement
- 3 White flexible PVC intermediate layer
- 4 Black smooth polyester elastomer

FLEXIBLE, RESISTANT, WATER HOSE.

Four-layer thermoplastic design, with resistant polyester fibre reinforcement.

APPLICATIONS

The main application for Tricovend is the conveyance of mains water / potable drinking water.

ALL SECTORS OF ACTIVITY

Caravan Industry, marine industry, vending machines, drinking water.

TRICOVEND IS IN COMPLIANCE
WITH STANDARD BS 6920:2014
FOR USE WITH WATER UP TO 85°C.
WRAS APPROVAL NUMBER : 2212531

MARKING

TRICOVEND [WP] BAR WRAS REG. [Batch number]

ADVANTAGES

TRICOVEND® is a flexible hose with high mechanical resistance, designed to transport drinking water in compliance with WRAS regulations in the United Kingdom. It contains no harmful substances that could damage human health. Thanks to its perfectly smooth and odourless inner layer, our hose prevents the growth of micro-organisms: the taste and smell of the water are not adversely affected. The primary materials used as well as the quality of its reinforcement give the hose excellent resistance to pressure, ageing and pressure cycling. TRICOVEND® also has a low curve radius that makes it particularly adapted for use in automatic beverage machines.

CONNECTORS

Connectors are compliant with WRAS requirements for the transport of drinking water. Setting is possible with non-damaging connectors (you must be particularly careful not to damage the polyester inner wall). Make sure before mounting that the end piece of the connector will not damage the inner tube (especially for poorly smoothed connectors that may have cutting edges).

CHEMICAL RESISTANCE

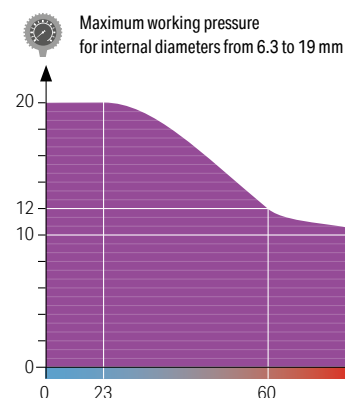
Please consult table column D of the Chemical Resistance Chart of hoses.

INSTRUCTION BEFORE USE

It is recommended to flush the hose before first use.

Maximum working pressure
10 bar at 85°C

	+/-		+/-						White 30 m
mm	mm	mm	mm	mm	g/m	bar	bar	mm	
6.3	+/- 0.3	12	+/- 0.3	2.35	99	80	26	40	153000
10	+/- 0.5	16	+/- 0.5	3	148	60	20	75	153001
12.5	+/- 0.5	19	+/- 0.5	3.25	194	60	20	90	153002
19	+/- 0.8	26	+/- 0.8	3.5	298	60	20	200	153003
25	+/- 1.0	33	+/- 1.0	4	439	45	15	250	153004



VITRYL®



1 Transparent food-grade silicone.

FOOD-GRADE QUALITY MONOLAYER TUBE IN TRANSPARENT SILICONE (60 SHA).

APPLICATIONS

Food liquids and aqueous solutions transfer including acids and bases (please consult us)

SECTORS OF ACTIVITY

Food Processing, medical (non invasive equipment) laboratories, peristaltic pumps

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

60

WITHOUT MARKING

ADVANTAGES


Silicone is a flexible material which is resistant to high temperatures. VITRYL® can be used up to 240°C and resists repeated sterilization cycles. VITRYL® can also be used at low temperatures and is suitable for foodstuff and alcohol transfer up to 50%.

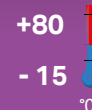
CONNECTORS

Barbed connectors with band, worm drive, screw or 'O' type clamps. Crimping is unsuitable. It can be fitted to smooth tubes with clamps.

CHEMICAL RESISTANCE

See table pages 114 to 117 column G.

	\pm mm		\pm mm		\pm mm		g/m	Transparent
								25 m
3	$\pm 0,2$	5	1	$\pm 0,15$	15			189782
3	$\pm 0,2$	6	1,5	$\pm 0,15$	24			169283
3	$\pm 0,2$	7	2	$\pm 0,15$	37			169022
4	$\pm 0,25$	6	1	$\pm 0,15$	18			189795
4	$\pm 0,25$	7	1,5	$\pm 0,15$	30			169309
4	$\pm 0,25$	8	2	$\pm 0,15$	44			169035
5	$\pm 0,35$	8	1,5	$\pm 0,2$	36			189801
6	$\pm 0,35$	9	1,5	$\pm 0,25$	41			189814
6	$\pm 0,35$	10	2	$\pm 0,25$	58			169080
6	$\pm 0,35$	12	3	$\pm 0,25$	98			169093
7	$\pm 0,4$	11	2	$\pm 0,25$	66			169409
8	$\pm 0,4$	11	1,5	$\pm 0,25$	52			169425
8	$\pm 0,4$	12	2	$\pm 0,25$	73			189830
8	$\pm 0,4$	14	3	$\pm 0,25$	120			169112
10	$\pm 0,4$	14	2	$\pm 0,25$	87			189843
10	$\pm 0,4$	16	3	$\pm 0,25$	132			169125
12	$\pm 0,5$	16	2	$\pm 0,3$	102			169154
12	$\pm 0,5$	17	2,5	$\pm 0,3$	132			189856
15	$\pm 0,5$	21	3	$\pm 0,3$	197			189869
20	$\pm 0,7$	27	3,5	$\pm 0,36$	300			189885



WASHING GUN LOW PRESSURE







This low pressure washing gun is designed for all your industrial cleaning operations buildings, agribusiness laboratories, equipment, machines, vehicles...

The automatic shut off trigger enables considerable reduction in water consumption. According to the pressure, you exert on the trigger to adjust the power. You can vary from a wide spray to a powerful concentrated jet.

It is sturdy, maintenance free, made from brass and stainless steel, covered with a EPDM coating to provide protection against shocks, chemical detergents and heat.

It is mandatory to wear heat-resistant and waterproof gloves when the fluid temperature exceeds 80°C.

Fittings: BSP 1/2" female.

 g	 bar	 T° max	 L/min/bar	Ref
840	25	80	25/5	059100

61



POLYPROPYLENE WATER GUN LOW PRESSURE



Easy to handle, low pressure water gun, designed to cope with the toughest industrial cleaning operations. The system for adjusting the water-jet/spray pattern is independent of the trigger, allowing precise control of water consumption.





Very easy to operate, ultra-light and with a stainless-steel swivel connector-coupling to allow the free rotation of the gun on the hose. Very robust, with a polypropylene internal operating structure with fibreglass reinforcements. The trigger is protected to reduce the risk of damage if dropped. The protective cover is fully enclosed to avoid build up of dirt and grime. Stainless-steel water inlet connector, body and shut-off spring: joints/valve seals in NBR/EPDM

Connector: BSP 1/2" female.



Stainless-steel
swivel connector

Jet/spray control knob

 g	 bar	 T° max	 L/min/bar	Ref
420	12	50	27/5	059107



Dany,
Maintenance Technician,
competed in the national mountain biking competition.
He shoots for the Saint-Dizier club



TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, IRRIFLEX, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

63

T694, T1947

FIRE-FIGHTING HOSES

73

SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2)
SPIRE ACIER

SPIRAL HOSES

77

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

93

FOOD GRADE

109

CHEMICAL RESISTANCE CHART OF HOSES

113

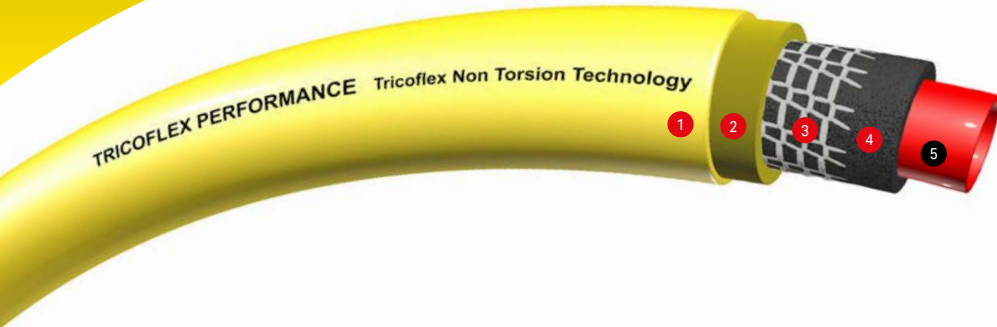
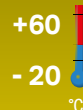
INDEX PRODUCTS BY ARTICLE CODE

119

GENERAL CONDITIONS OF SALES

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TRICOFLEX® PERFORMANCE



- 1 Soft PVC coating
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Red flexible PVC

FIVE-LAYER KNIT WATER TRANSPORT HOSE FOR PROFESSIONAL USE.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

MARKING

TRICOFLEX PERFORMANCE Tricoflex Non Torsion Technology  [N° lot]

ADVANTAGES

TRICOFLEX® PERFORMANCE combines high resistance and exceptional flexibility thanks to a Multilayered structure and an exclusive knit technique.

Resistant to abrasion, bad weather conditions, UV, crushing, and repeated pressure cycles, with a low curve radius preventing folding: these intrinsic qualities make the difference every day and for the long term.

TRICOFLEX® PERFORMANCE even has a red interior wall specially formulated to improve flow and resisted to polluted water, for a longer life span even in the case of especially tough use.







CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.



						Yellow	
						25 m	50 m
12,5	18,2	2,85	38	15	110	110000	110001
15	20,8	2,9	35	14	120	110002	110003
19	25,8	3,4	30	12	160	110004	110005
25	32,4	3,7	20	8	200	110006	110007

TRICOFLEX®

Classic


- 1 Yellow or green PVC covering
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Smooth black inner tube

FLEXIBLE MULTILAYER HOSE.

Exterior covering in ultra UV-resistant PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

MARKING

TRICOFLEX Soft & Flex Technology Tricoflex Non Torsion Made in France [Batch number]

ADVANTAGES

The Multilayer design, made of an exclusive woven fibre and a double core layer, ensures that TRICOFLEX® is highly flexible for easy handling, with excellent resistance to repeated bending, crushing and pulling as well as minor deformation under pressure.

In addition, the lining is extremely smooth, thereby maintaining even flow. Especially thick and made of high quality materials, TRICOFLEX® offers remarkable aging resistance with exceptional preservation of flexibility. Its exterior yellow PVC covering gives it good protection against abrasion and UV.







CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

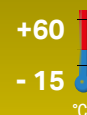
CHEMICAL RESISTANCE

See table pages 114 to 117 column A.



						Yellow			Green	
						25 m	50 m	100 m	25 m	50 m
12,5	17,6	2,55	25	10	125	117135	117151	117016		
15	20,5	2,75	25	10	135	116861	116874	054426	117045	117051
19	25,3	3,15	23	9	180	116887	051546	054437	142916	051570
25	32,3	3,65	20	8	240	048273	048374	048363	048284	048385
30	39	4,5	20	8	300	048508	048510	048497		
35	45	5	20	8	350	048565	048554	048587		
40	51	5,5	20	8	400	048442	048453	048655		
50	63	6,5	20	8	500	048306	048341			

TRICOFLEX® R



- 1 Yellow PVC covering
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Smooth black innertube

FLEXIBLE MULTILAYER HOSE.

Exterior covering in ultra UV-resistant PVC. With woven polyester fibre reinforcement and two-layer smooth black lining.

APPLICATIONS

Automatic sprinkler installations in greenhouses (mounted on motorized carts) Irrigation: water transfer and supply, main supply of micro-irrigation networks

SECTORS OF ACTIVITY

Farms, horticulture, water supply in industry and on construction sites and road works

MARKING

TRICOFLEX R Tricoflex Non Torsion Technology  [Batch number]

66

ADVANTAGES

The multilayer design ensures that TRICOFLEX® R is both highly flexible for easy handling and has an excellent resistance to repeated bending, crushing and tensile stress.

A greatly resistant woven fibre and modified materials compared to TRICOFLEX® make TRICOFLEX® R a product particularly well suited to gantry sprinkler equipment in greenhouses, with increased resistance to tensile forces.

In addition, the inner surface is extremely smooth, thereby maintaining an even flow.

Especially thick and made of high quality materials, TRICOFLEX® R offers remarkable aging resistance with exceptional preservation of flexibility.







Its exterior yellow PVC covering gives it good protection against abrasion and UV rays.

CONNECTORS

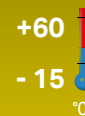
Connectors with band, screw or 'O' type clamps.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

 mm	 mm	 mm	 bar	 bar	 mm	Yellow	
						50 m	100 m
19	25,5	3,25	24	8	250	116568	116542
25	32,5	3,75	24	8	320	048671	048697

TRICOFLEX® YACHTING



- 1 White PVC flexible liner
- 2 Intermediate layers of foam PVC
- 3 Knitted fibre reinforcement
- 4 Intermediate layers of foam PVC
- 5 Blue inner tube

FIVE-LAYER MULTIPURPOSE HOSE WITH KNITTED REINFORCEMENT.

Exterior covering in PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

APPLICATIONS

Water supply and delivery

SECTORS OF ACTIVITY

Yachting, swimming pools

MARKING

TRICOFLEX YACHTING Soft & Flex Technology

ADVANTAGES

Flexible and strong. White outer layer makes it particularly unobtrusive on boats and around swimming pools.







CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

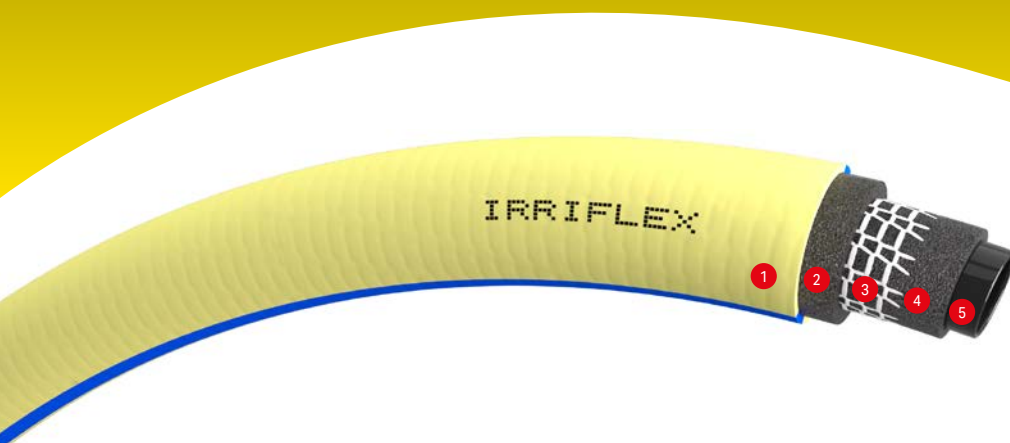
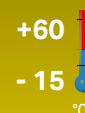


 mm	 mm	 mm	 bar	 bar	 mm	White		
						15 m	25 m	50 m
12,5	18,2	2,85	25	10	125	063150		
15	21,1	3,05	25	10	135		063176	
19	26	3,5	23	9	180		063218	063263

Reel
80 m
063205

IRRIFLEX

**NOT AVAILABLE FOR SALE
IN THE UNITED KINGDOM**



- 1 Flexible PVC cover yellow with 2 blue stripes
- 2 Intermediate layer of expanded PVC black
- 3 Knitted textile reinforcement TNT
- 4 Intermediate layer of expanded PVC black
- 5 Black smooth soft PVC liner

FLEXIBLE MULTILAYER HOSE.

Structure reinforced with polyester knitting and UV-resistant cover.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

MARKING

IRRIFLEX  [Batch number]

68

ADVANTAGES






The Irriflex is a flexible Multilayer hose suitable for everyday professional uses.

CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

 mm	 mm	 bar	 bar	 mm	Yellow	
					25 m	50 m
12,5	2,4	23	9	130	110050	110051
15	2,55	23	9	140	110052	110053
19	2,95	20	8	185	110054	110055
25	3,05	20	8	260	110056	110057



PRIMABEL®



- 1 Cover in soft yellow PVC
- 2 Intermediate layer in foamed PVC
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer in foamed black PVC
- 5 Black inner tube

FLEXIBLE MULTILAYER HOSE.

Five-layer knitted hose with foamed "Soft&Flex" structure. Light and soft, it is recommended for regular use.

APPLICATIONS

Watering, water supply

ALL SECTORS OF ACTIVITY

MARKING

PRIMABEL Soft&Flex Technology Non Torsion Made in France [Batch number]

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.



					Yellow			Green	
					15 m	25 m	50 m	25 m	50 m
12,5	2,25	20	8	140		116365	116378	132839	
15	2,05	20	8	160	153805	116381	116394	117802	117799
19	2,4	16	6	200		116400	194255	117828	117757
25	3	16	6	255		194268	194271		
30	4,2	16	6	460			194297		

TRICOFLAT® & SUPER TRICOFLAT®

FLAT HOSES.

Three-layer design in PVC with polyester fibre reinforcement.

MARKING

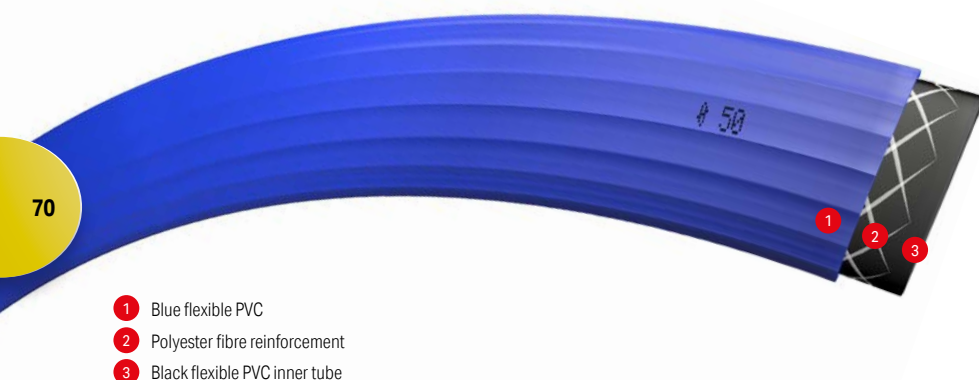
ø inn [Batch number]

TRICOFLAT®


30 | 7,5
bar

+60
- 10
°C

STANDARD QUALITY : BLUE COVER



APPLICATIONS

Water supply and irrigation

SECTORS OF ACTIVITY

Farms, building trades and road works, industry

ADVANTAGES

The polyester fibre reinforcement gives TRICOFLAT® (blue) and SUPER TRICOFLAT® (red) excellent pressure, tensile and tear resistance. These robust hoses also demonstrate excellent resistance to UV, abrasion and crushing.

The inner and outer layers are made of PVC, whose flexibility provides greater ease of use and handling. Flat storage helps reduce clutter. After use, cleaning is easy, with no need for drying. The perfectly smooth inner surface decreases flow losses.

The bright colors make identification easy.

CONNECTORS

Cam, semi-symmetrical or Storz connectors. Band collars. In order to avoid damaging the hose during installation of the collars, it is recommended that before tightening, each end be protected with a sleeve that can simply be a 10 cm length taken from the hose itself.

CHEMICAL RESISTANCE

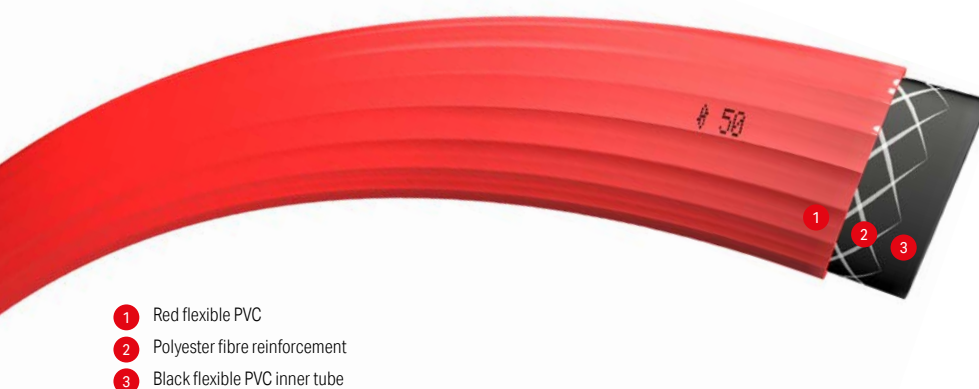
See table pages 114 to 117 column A.

SUPER TRICOFLAT®








42 | 18
bar







+60
- 15
°C

HEAVY DUTY : RED COVER



TRICOFLAT® & SUPER TRICOFLAT®

TRICOFLAT®								Blue		
 mm	+/- mm	 mm	+/- mm	 mm	 bar	 bar	 daN	25 m	50 m	100 m
25	+/- 1,5	2,2	+/- 0,2	240	30	10	350	140602	140615	
30	+/- 1,5	2,2	+/- 0,2	280	30	10	400	140631	140644	
35	+/- 1,5	2,2	+/- 0,2	300	30	10	500		140016	
40	+/- 1,5	2,2	+/- 0,2	350	30	10	400	140027		140041
45	+/- 1,5	2,2	+/- 0,2	400	30	10	450	140054	140067	
50	+/- 1,5	2,2	+/- 0,2	480	24	8	500	140070	140083	140096
55	+/- 1,5	2,2	+/- 0,2	500	21	7	550	140109	140112	
63	+/- 1,5	2,2	+/- 0,2	540	21	7	630			140141
70	+/- 2,0	2,2	+/- 0,2	620	21	7	700	140154	140167	
75	+/- 2,0	2,4	+/- 0,2	750	21	7	750	140183	140196	140209
80	+/- 2,0	2,4	+/- 0,2	800	21	7	800			140201
90	+/- 2,0	2,4	+/- 0,2	900	21	7	900	140212	140225	
100	+/- 2,0	2,4	+/- 0,2	1050	18	6	1000	140241	140254	140267
200	+/- 2,0	3	+/- 0,2	2100	7,5	2,5	2000		140689	

SUPER TRICOFLAT®								Red	
 mm	+/- mm	 mm	+/- mm	 mm	 bar	 bar	 daN	25 m	100 m
45	+/- 1,5	2,5	+/- 0,5	480	42	14	450	140325	
50	+/- 1,5	2,5	+/- 0,5	520	36	12	500	140357	140373
70	+/- 2,0	2,8	+/- 0,5	840	36	12	700	140431	
75	+/- 2,0	2,8	+/- 0,5	880	36	12	750	140457	140473
100	+/- 2,0	3,1	+/- 0,5	1300	30	10	1000	140515	
150	+/- 2,0	3,2	+/- 0,5	2000	18	6	1500	140544	



FEUERSCHUTZ
MARNE
POMPIERS

INTERIEUR - SPECIES - POMPIERS - 140.150.07 - TUNNEL - SENT - P10102 - DN 25 - CATEGORIE 1 - TYPE R2 - VERSION S - EL 1947-2014 - PN



T694, T1947	FIRE-FIGHTING HOSES	73
SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER	SPIRAL HOSES	77
DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	93
	FOOD GRADE	109
	CHEMICAL RESISTANCE CHART OF HOSES	113
	INDEX PRODUCTS BY ARTICLE CODE	119
	GENERAL CONDITIONS OF SALES	129

T 1947



100 | 45

 bar

+60
 - 20
 °C



- 1 Cover in red soft PVC
- 2 Polyester reinforcement
- 3 Inner layer in black soft PVC

SEMI-RIGID HOSES FOR FIRE-FIGHTING TRUCKS.

Three-layer design according to EN 1947 type A class 2, with polyester reinforcement.

**T1947:2014 HOSES COMPLY WITH
NF EN 1947:2014 STANDARD
(TYPE A CLASS 2)**



NF 377
 148.TSR.07
www.marque-nf.com

MARKING









MATERIELS SAPEURS POMPIERS 148.TSR.07 TUYAU SEMI-RIGIDE DN 25 CATEGORIE 1 TYPE A2 VERSION S.EN 1947:2014. PN 15 BAR [Quarter/Year] [Batch number]

ADVANTAGES

Light and flexible, T1947 hoses withstand easily shocks and crushing. It coils well without flattening on standard hose reels.

CONNECTORS

Usual connections for fire-fighting hoses.

Class	 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	Red		
	20 m	40 m									
1	25,5	+/- 0,5	33,3	+/- 0,4	3,9	466	45	15	440	125746	125865

T 694

 **42 | 25**
bar

+60
- 20
°C



- 1 Cover in black or red soft PVC
- 2 Polyester reinforcement
- 3 Inner layer in black soft PVC

HOSE FOR FIRE-FIGHTING REELS - BLACK MATT OR RED COLOUR.


Three-layer hose according to NF EN 694:2014 (type A class 2), with polyester reinforcement.

**T 694 HOSE COMPLIES WITH
NF EN 694:2014 STANDARD
(TYPE A CLASS 2)**



NF 021
02/01
www.marque-nf.com

MARKING










 - EN 694:2014 - A - 2 - Ø inn - [WP] - [Quarter]Q/[Year] - NF - 02 - [Batch number]

ADVANTAGES

Its conception in very resistant materials allows T694 to easily withstand shocks and crushing.
It coils well without flattening on standard hose reels.
Thanks to the UV and abrasion resistant cover, T694 has excellent anti-aging properties.

CONNECTORS

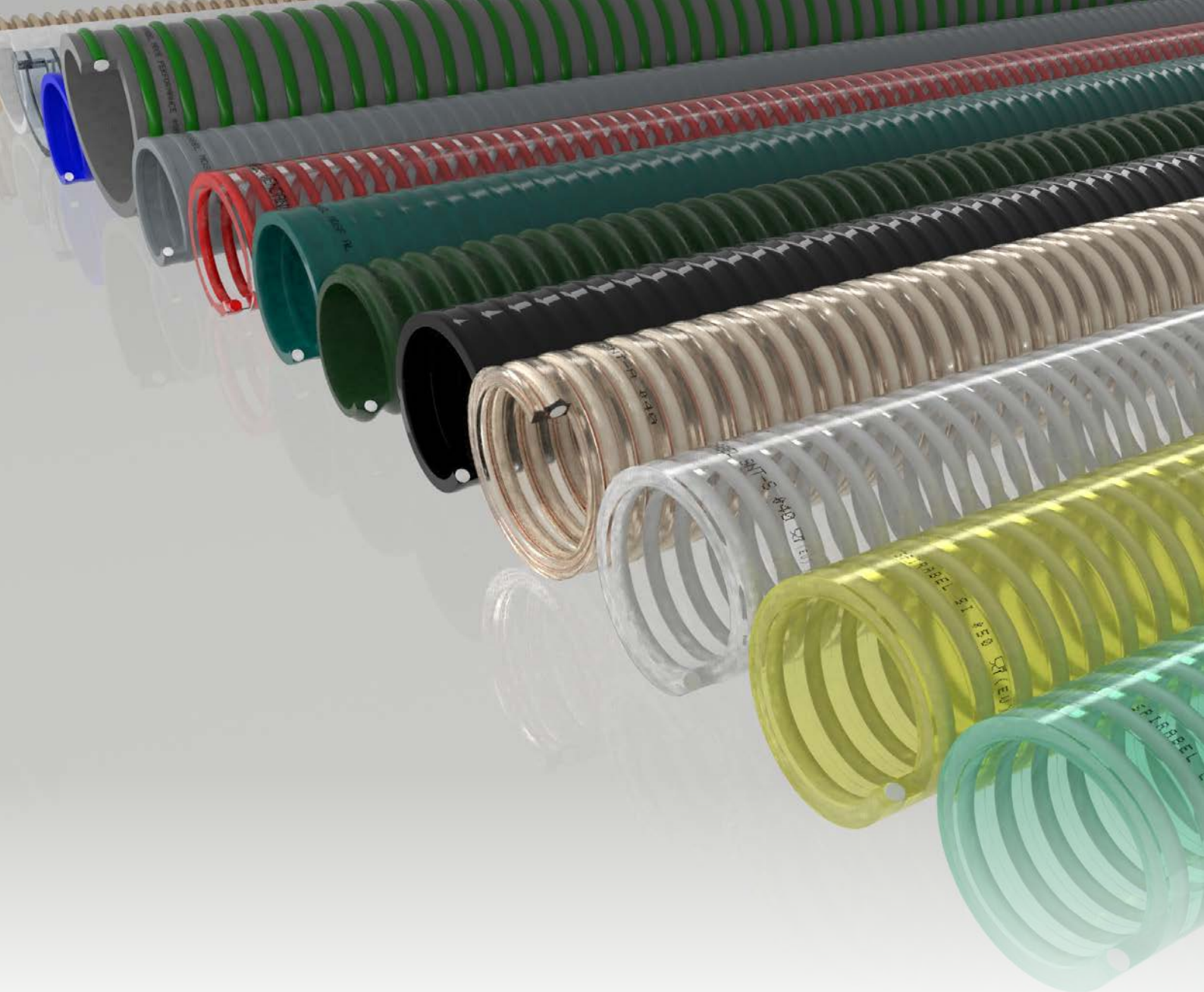
Usual connections for fire-fighting hoses.

									Black	Red
mm	mm	mm	mm	g/m	bar	bar	bar	bar	30 m	30 m
19	+/-0,6	25	+/-0,6	3	285	42	12	220	145336	145430
25	+/-0,8	32	+/-0,8	3,5	433	42	12	240	145378	145352
33	+/-1,0	41,5	+/-1,0	4,25	714	25	7	280	144672	



Laurent,
Regulator in the Spiral Hose Workshop:
jogs 10 km every 2 days, and practises alongside his children at the Thai boxing club
in Châlons-en-Champagne. Over the course of his career, he has won a number of
titles, and was even named Champion of Picardy & Champagne-Ardenne.





SPIRABEL® RANGE : (LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, BALNÉO, PUA2) SPIRE ACIER

SPIRAL HOSES

77

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

93

FOOD GRADE

109

CHEMICAL RESISTANCE CHART OF HOSES

113

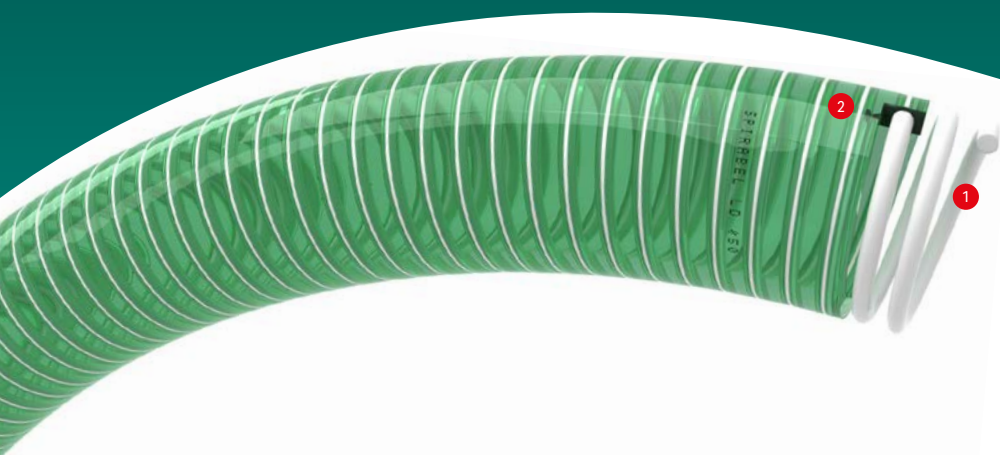
INDEX PRODUCTS BY ARTICLE CODE

119

GENERAL CONDITIONS OF SALES

129

SPIRABEL® LD



- 1 White spiral in rigid and shock-proof PVC
- 2 Wall in soft and transparent PVC. Inner and outer smooth

FLEXIBLE HOSE REINFORCED WITH A WHITE SHOCK-PROOF PVC SPIRAL. SOFT AND TRANSPARENT PVC WALL. LIGHT DUTY.

APPLICATIONS

Suction and delivery light duty, watering, small pumps, seed drills

SECTORS OF ACTIVITY

Agriculture, industry

MARKING

SPIRABEL LD Ø inn [Batch number]

ADVANTAGES

SPIRABEL® LD is a very light, flexible and economic hose. Its inner wall is smooth to reduce flow losses. Its transparency allows observation of transferred products.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Transparent green wall		
								25 m	30 m	50 m
20	+/- 1,0	2,4	220	18	6	600	80			137315
25	+/- 1,0	2,4	270	15	5	600	105			137331
32	+/- 1,0	2,5	350	15	5	600	135			137357
38	+/- 0,6	2,8	460	15	5	600	160		137371	137373
40	+/- 0,6	2,9	500	15	5	600	180	134376		
50	+/- 0,6	3,3	710	12	4	600	230		137413	137415
63	+/- 1,0	3,5	870	12	4	600	265			134405
75	+/- 1,0	3,8	1000	12	4	600	315	134421		
102	+/- 1,0	4,2	1870	9	3	600	428	134489		

SPIRABEL® SI



- 1 White spiral in rigid and shock-proof PVC
2 Wall in soft and transparent yellow PVC

MULTIPURPOSE HOSE. REINFORCED WITH A WHITE, RIGID AND SHOCK-PROOF PVC SPIRAL IN A TRANSPARENT SOFT PVC WALL.

APPLICATIONS

Suction and delivery of various liquids, irrigation, pumps, seed drills, transfer of low abrasive powders

SECTORS OF ACTIVITY

Industry, building, agriculture

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

SPIRABEL S.I. Ø inn (EU) N° 10/2011 SIMA, B, C [Batch number]

ADVANTAGES

SPIRABEL® S.I. is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses. The smooth outside surface (up to diam 60) makes the assembly of fittings with any type of collar easier. The transparent wall allows observation of transferred products.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

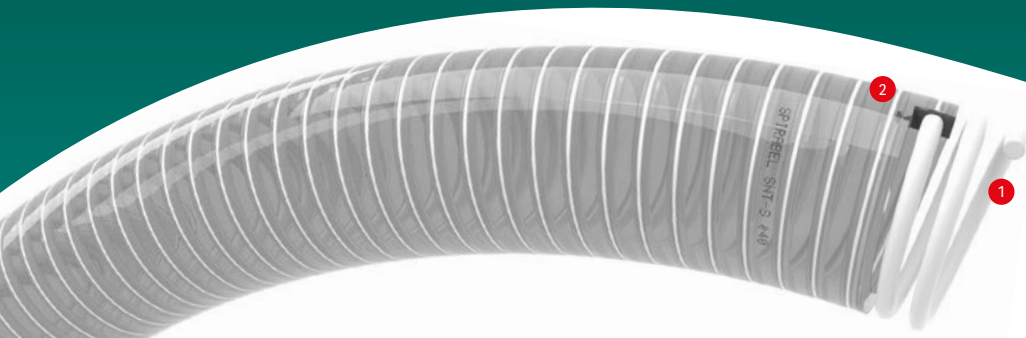
See table pages 114 to 117 column A.
We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Transparent yellow wall	
								25 m	50 m
20	+/-0,6	2,4	230	18	6	700	60		191664
25	+/-0,6	2,5	280	18	6	700	75	033377	033300
30	+/-0,6	2,5	340	18	6	700	90	033388	033311
32	+/-0,6	2,5	360	16	5	700	95	032642	032655
35	+/-0,6	3	455	15	5	700	105	032658	
38	+/-0,6	2,8	480	15	5	700	115	032661	
40	+/-0,6	2,9	500	15	5	700	120	033390	033322
45	+/-0,6	3,1	595	15	5	700	135	033393	
50	+/-0,6	3,2	720	15	5	700	150	033401	033333
60	+/-0,6	3,2	840	15	5	700	180		033491
80	+/-0,6	4,5	1310	9	3	700	320	033538	
90	+/-0,6	4,8	1620	9	3	700	360	033524	
102	+/-0,6	5,2	2000	9	3	700	550	033366	

SPIRABEL® SNT-S



- 1 White spiral in rigid and shock-proof PVC
- 2 Wall in soft and transparent PVC

MULTIPURPOSE FOOD QUALITY HOSES.

Reinforced with a white, rigid and shock-proof PVC spiral in a transparent soft PVC wall.

APPLICATIONS

Suction and delivery of various liquids, irrigation, pumps, seed drills, transfer of food liquids, transfer of low abrasive powders (Non-greasy)

SECTORS OF ACTIVITY

Industry, Agriculture and food industry, building

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRABEL SNT-S Ø inn 27 (EU) N° 10/2011 [Batch number]

ADVANTAGES

SPIRABEL® S.N.T.-S is light, very flexible and resistant. Its very smooth inner wall assures low flow losses. Its outer wall is also smooth which helps fitting connection by using band collars and reduces abrasive damage. Its transparency allows observation of transferred products.

SPIRABEL® S.N.T.-S can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.








CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent	
								25 m	50 m
20	+/- 1,0	2,6	242	21	7	900	60	167124	167137
25	+/- 1,0	2,7	300	21	7	900	75	167140	167153
30	+/- 1,0	2,7	359	18	6	900	90	167166	167172
32	+/- 1,0	2,8	387	18	6	900	95	167185	167198
35	+/- 1,0	3	475	18	6	900	105	167201	167214
38	+/- 1,0	3	504	18	6	900	115	167227	167230
40	+/- 1,0	3	523	18	6	900	120	167243	167256
45	+/- 1,0	3,1	614	15	5	900	135	167269	167272
50	+/- 1,0	3,3	736	15	5	900	150	167285	167298
55	+/- 1,0	3,3	784	15	5	900	165	167301	
60	+/- 0,6	3,3	873	15	5	900	180	167662	033873
63	+/- 1,0	3,3	960	15	5	900	190	167327	167330
70	+/- 0,6	3,4	1040	12	4	900	210	167675	
75	+/- 1,0	4,8	1200	12	4	900	300	033243	033254
80	+/- 1,0	5,3	1350	9	3	900	320	033915	
90	+/- 1,0	6,1	1650	9	3	900	360	033906	
100	+/- 1,0	6,1	1970	9	3	900	500	033928	
110	+/- 1,0	6,1	2310	9	3	900	550	033931	
120	+/- 1,0	6,3	2540	9	3	900	600	033944	
151	+/- 1,0	6,3	4200	9	3	900	755	148913	

Smooth inner wall.
Smooth outer wall to ø 70mm.

SPIRABEL® SNT-A

900
mbar22,5 | 18
bar+60
- 15
°C

- 1 White spiral in rigid PVC
- 2 Conductive copper wire
- 3 Wall in soft and transparent PVC

HOSE WITH A RIGID SPIRAL AND A CONDUCTIVE COPPER WIRE.

Both spiral and wire are embedded in a transparent soft PVC wall.

APPLICATIONS

Suction and delivery of low abrasive powders, transfer of grains, suction of plastic compounds in granules or powders, transfer of liquids

SECTORS OF ACTIVITY

Agriculture, transformation of plastics

MARKING

SNT-A Ø inn [Batch number]

ADVANTAGES

Thanks to its rigid spiral, SPIRABEL® S.N.T.-A is both resistant to vacuum and crushing. It can withstand repeated flexing and its transparency allows observation of transferred products. This hose should be used where there is a risk of electrostatic charges from the abrasion on the floor.

SPIRABEL® S.N.T.-A smooth inner wall assures low flow losses, avoids retention zones and helps the cleaning.

CONNECTORS








Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue. Do not use SPIRABEL® S.N.T.-A for the transfer of hydrocarbons. For very abrasive powders, use polyurethane hoses like SPIRABEL® PU A2.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent	
								25 m	50 m
40	+/-0,8	4	582	22,5	7,5	900	160	137128	136925
50	+/-1,0	4,5	824	19,5	6,5	900	200	137144	136941
60	+/-1,0	4,5	970	18	6	900	240	137157	

SPIRABEL® SISE



- 1 Anti-impact rigid PVC spiral reinforcement
- 2 Flexible, smooth PVC bore

MULTIPURPOSE HOSE, COLD FLEXIBLE.

Reinforced with a rigid and shock-proof PVC spiral in a black soft PVC wall.

APPLICATIONS

Agricultural spraying, seed drills, transfer of alcohol

SECTORS OF ACTIVITY

Agriculture

WITHOUT MARKING

ADVANTAGES

SPIRABEL® SISE has a good resistance to vacuum and is very flexible even in cold weather thanks to its special PVC wall.

Its smooth inner wall assures low flow losses, avoids retention zones and assists cleaning. SPIRABEL® SISE can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS








Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Black	
								30 m	50 m
32	+/- 1,0	2,5	360	12	4	700	95		032668
40	+/- 1,0	2,9	500	12	4	700	120		032671
51	+/- 1,0	3,2	730	12	4	700	155	032679	032680
60	+/- 1,0	3,2	840	12	4	700	180		032683

SPIRABEL® GMDS

NEW DESIGN
IMPROVED FLEXIBILITY



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC green wall

MULTIPURPOSE HOSE.

Reinforced with a white, rigid and shock-proof PVC spiral in a soft PVC wall.

APPLICATIONS

Multipurpose

ALL SECTORS OF ACTIVITY

MARKING

SPIRABEL GMDS Ø inn [Batch number]

ADVANTAGES

SPIRABEL® GMDS is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses.

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A. We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Green 30 m
25	+/- 0,8	3,4	360	15	5	950	60	033207
32	+/- 0,8	3,5	460	15	5	950	75	034380
38	+/- 0,8	3,7	570	15	5	950	90	034383
51	+/- 1,0	4,3	830	15	5	950	95	033233
63	+/- 1,0	4,4	1050	12	4	950	115	034193
76	+/- 1,0	5,3	1470	12	4	950	120	033255
102	+/- 1,0	6,3	2165	9	3	950	180	033920
152	+/- 1,0	7,2	4220	9	3	950	320	148914

SPIRABEL® MDSF AL



(EU) N°10/2011



- 1 Shock-proof spiral reinforcement
- 2 Flexible green- PVC wall

COLD FLEXIBLE FOOD HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Applications in the food industry for delivery foodstuffs conform the regulation 10/2011/EU - A/B/C/D1

SECTORS OF ACTIVITY

Food processing (factories and cooperatives), wine producing

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRABEL MDSF AL (EU) N° 10/2011 Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSF AL is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25 °C to + 60 °C

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

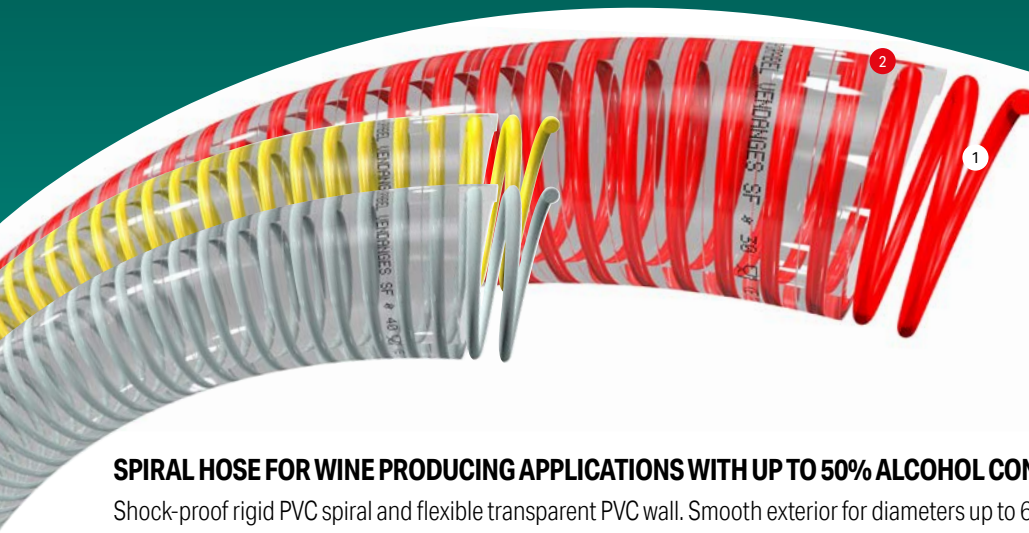
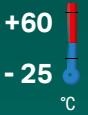
See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Green	
								20 m	30 m
76	+/- 1,0	5,6	1716	12	4	990	266		137215
102	+/- 1,0	7,1	2647	9	3	990	357		137244
151	+/- 1,5	9,5	4900	6	2	990	680	176202	

SPIRABEL® VENDANGES SF



- 1 Red spiral in shock-proof rigid PVC
- 2 Flexible transparent PVC wall

SPIRAL HOSE FOR WINE PRODUCING APPLICATIONS WITH UP TO 50% ALCOHOL CONTENT.

Shock-proof rigid PVC spiral and flexible transparent PVC wall. Smooth exterior for diameters up to 63mm. Food quality.

APPLICATIONS

Wine growing, transfer of food liquids

SECTORS OF ACTIVITY

Wine producing, food processing

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING SPIRABEL VENDANGES SF Ø inn (EU) N° 10/2011 - GARANTI SANS PHTALATES - QUALITÉ SOUPLE À FROID [Batch number]

ADVANTAGES

With its excellent properties under pressure and during suction, SPIRABEL® VENDANGES SF hose is extremely flexible, even at low temperatures, thanks to its specially formulated flexible PVC core.

Its smooth interior minimizes flow loss, avoids retention areas and makes rinsing easy. Its outer layer is also smooth to make it easy to tighten the collars and reduce abrasion on the ground. SPIRABEL® VENDANGES SF is perfect for transferring food liquids and conveying alcoholic beverages up to 50% alcohol content at 40°C.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors.








Fixings with band collars, single-thread or spiral collars (SERFLEX).

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Red Spiral		Yellow Spiral		Translucide Spiral
								25 m	50 m	25 m	50 m	25 m
40	+/- 1,0	4,3	699	21	7	990	144	148939	148942	148940		148941
50	+/- 1,0	4,7	1020	21	7	990	175	148955	148968		148969	148957
60	+/- 1,0	4,8	1215	18	6	990	210	148971				
63	+/- 1,0	5,3	1351	18	6	990	220	148997				
70	+/- 1,0	5,5	1603	18	6	990	245	149013				149015
80	+/- 1,0	5,7	1798	15	5	990	280	149039				
100	+/- 1,0	7	2622	15	5	990	350	149042				
120	+/- 1,0	8,2	3496	15	5	990	420	149055				

SPIRABEL® MDSE



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC wall, grey

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC, reinforced spiral in flexible PVC wall.

APPLICATIONS

Emptying and draining, equipment for lorries and liquid slurry tanks

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSE Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSE is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25° C to + 60° C

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.








CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

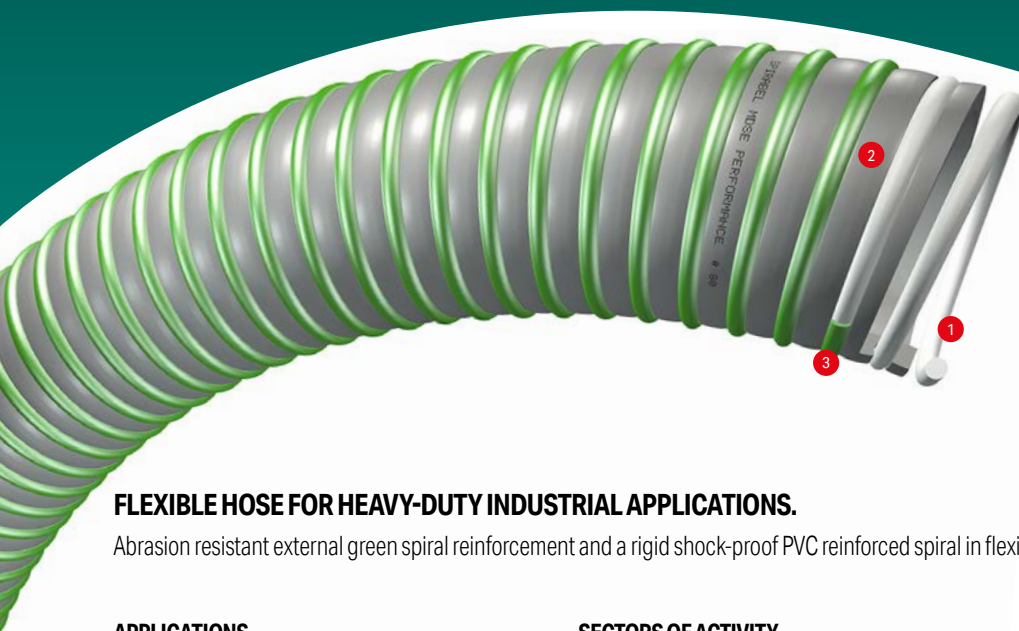
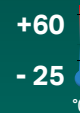
WARNING

For transfer of oil we recommend the use of SPIRABEL® MDSO.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 m	Grey		
								20 m	30 m	50 m
40	+/- 0,8	4,3	721	15	5	990	140		166920	
51	+/- 1,0	4,7	1055	15	5	990	179		166925	
60	+/- 1,0	5	1200	12	4	990	211		166927	
76	+/- 1,0	5,6	1748	12	4	990	266		166934	
80	+/- 1,0	5,7	1851	12	4	990	280			166938
102	+/- 1,0	7,1	2697	9	3	990	357		166943	
120	+/- 1,2	7,7	3250	6	2	990	540		166950	
127	+/- 1,3	8,2	3612	6	2	990	572	166951		
151	+/- 1,5	9,5	4950	6	2	990	680	166953		

SPIRABEL® MDSE PERFORMANCE



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC wall, grey
- 3 Shock proof green spiral reinforcement

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Abrasion resistant external green spiral reinforcement and a rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Emptying and draining, equipment for lorries and liquid slurry tanks

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSE PERFORMANCE Ø inn [Batch number]

ADVANTAGES

The SPIRABEL® MDSE PERFORMANCE hose sets a new standard for heavy-duty industrial applications. Light and very flexible even at low temperatures, with excellent abrasion resistance due to its external spiral reinforcement. The smooth interior ensures low flow resistance and avoids the creation of build-up zones. The SPIRABEL® MDSE PERFORMANCE hose is particularly adapted for emptying and draining work.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.








CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

For transfer of oil we recommend the use of SPIRABEL® MDSO.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Grey		
								20 m	30 m	50 m
51	+/- 1,0	4,7	1055	15	5	990	179		166979	
76	+/- 1,0	5,6	1748	12	4	990	250		166960	
80	+/- 1,0	5,7	1851	12	4	990	270		166961	166962
90	+/- 1,0	5,5	2250	9	3	990	290		166964	
102	+/- 1,0	7,1	2697	9	3	990	320		166963	
110	+/- 1,1	7,6	3005	9	3	990	485		169980	
120	+/- 1,2	7,7	3250	6	2	990	460		166965	
127	+/- 1,3	8,2	3612	6	2	990	572		166981	
151	+/- 1,5	9,5	4950	6	2	990	540	166967		

SPIRABEL® MDSO



- 1 Shock-proof spiral reinforcement
- 2 Flexible blue PVC wall, oil resistant

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Applications with exceptionally high flexibility and resistance to hydrocarbons in industry, engineering, construction, water supply and waste water technology, agriculture.

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSO Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSO is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25° C to + 60° C

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

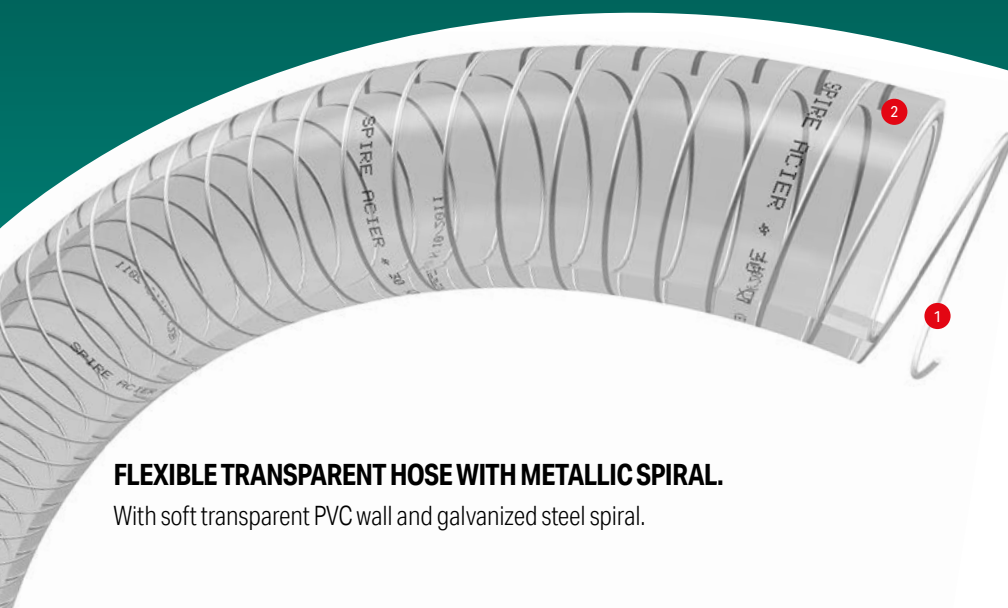
See table pages 114 to 117 column B.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Blue		
								10 m	30 m	50 m
25	+/- 0,8	4	485	15	5	990	88		176010	
32	+/- 0,8	4	585	15	5	990	112		176012	
38	+/- 0,8	4	715	15	5	990	133		176014	
51	+/- 1,0	4,6	1105	15	5	990	179	176017	176018	
63	+/- 1,0	5	1465	12	4	990	221		176020	
76	+/- 1,0	5,3	1780	12	4	990	266		176023	
80	+/- 1,0	5,5	2069	12	4	990	280			176009
102	+/- 1,0	6,3	2820	9	3	990	357		176026	

SPIRE ACIER



- 1 Galvanized steel spiral
- 2 Transparent PVC wall

FLEXIBLE TRANSPARENT HOSE WITH METALLIC SPIRAL.

With soft transparent PVC wall and galvanized steel spiral.

APPLICATIONS

Sewage, suction and delivery of slurry, transfer of chemical products, food products, liquids, powders and dust.

SECTORS OF ACTIVITY








Industry, building

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRE ACIER ø inn (EU) N° 10/2011 Sim A,B,C,D1 [Batch number]

								Transparent	
	mm	mm	g/m	bar	bar	mbar	mm	20 m	30 m
12	+/-0,6	2,5	186	34,5	11,5	900	23		135460
14	+/-0,6	3	220	33	11	900	26		135476
16	+/-0,6	3	250	31,5	10,5	900	30		034799
18	+/-0,6	3,5	286	30	10	900	32		135511
20	+/-1,0	3,5	392	30	10	900	34		034902
25	+/-1,0	4	506	28,5	9,5	900	42		034916
30	+/-1,0	4	610	27	9	900	50		034921
32	+/-1,0	4	640	27	9	900	53		190785
35	+/-1,0	4,5	726	24	8	900	58		034934
38	+/-1,0	4	776	22,5	7,5	900	63		190798
40	+/-1,0	5	920	22,5	7,5	900	66		034947
45	+/-1,0	5	1157	19,5	6,5	900	74		034959
50	+/-1,0	5,4	1300	18	6	900	82		034962
60	+/-1,0	6	1735	16,5	5,5	900	130		034991
63	+/-1,0	6	1756	16	5	900	140		034992
70	+/-1,0	6,5	2105	15	5	900	180		034827
76	+/-1,0	6,6	2270	12	4	900	200		034769
80	+/-1,0	6,6	2533	10,5	3,5	900	172	034743	
90	+/-1,0	6,9	2904	9	3	900	192	034756	
102	+/-1,0	7,8	3661	9	3	900	300	190710	
110	+/-1,1	7,6	3927	7,5	2,5	900	320	034869	
120	+/-1,2	7,6	4150	6,6	2,2	900	340	034872	
150	+/-1,5	9	6460	6	2	900	450	034975	

ADVANTAGES

Manufactured from high quality soft PVC with a galvanized steel spiral, SPIRE ACIER is highly resistant to vacuum and crushing. The transparent wall is UV resistant and allows easy visual control of the fluid and identification of blockages. The smooth inner wall reduces flow losses and enables easy cleaning. Spire Acier is suitable for food contact applications up to 40°C. Alcohol beverages up to 50% alcohol content can also be conveyed up to 40°C.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors - Fixing with singlethread or spiral collars.

Crimping band collars are not recommended as they do not ensure perfect leak-proof connection and increase the risk of the spiral being crushed or breaking.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

SPIRABEL® BALNEO PISCINE


 +60
 21 | 15
 bar


 - 15
 °C




- 1 White spiral in rigid PVC
- 2 Wall in soft and white PVC. Inner and outer smooth

HOSE REINFORCED WITH A RIGID SPIRAL IN A WHITE SOFT PVC WALL.

APPLICATIONS

Swimmingpools and spas

MARKING

SPIRABEL BALNEO Ø out  [Batch number]

ADVANTAGES

The manufacturing process designed to make SPIRABEL® BALNEO assures smooth inner and outer walls and a high precision of the outer diameter. This brings a total compatibility with plastic connectors used for swimmingpools or spas.

This hose is highly resistant to crushing and vacuum.

CONNECTORS







Usual plastic connectors for swimming pool building.

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

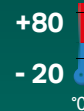
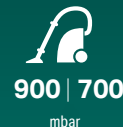
WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	 +/- mm	 g/m	 bar	 bar	 mm	White	
						25 m	50 m
32	+/- 0,4	346	21	7	80	168729	
50	+/- 0,4	675	18	6	190	168774	168780
63	+/- 0,4	943	15	5	250	168793	

Warning:
designation by the
outside diameter

SPIRABEL® PU A2



- 1 Flexible polyurethane bore
- 2 Rigid PVC spiral reinforcement
- 3 Copper conducting spiral

MULTIPURPOSE HOSE, RESISTANT AND VERY FLEXIBLE, ANTISTATIC.

Flexible, transparent polyurethane bore. Rigid grey PVC reinforcement spiral. Copper conducting wire embedded within the spiral.

APPLICATIONS

Transport of abrasives (powders, granules, mud, sand, cement, gravel, etc.), transfer of various liquids: paints, solvents, hydrocarbons

SECTORS OF ACTIVITY

Industry in general, including chemicals, Industry, building

SPIRABEL® PU A2
suitable for dried
foodstuffs only.

MARKING

PUA2 Ø inn [Batch number]

ADVANTAGES

Very resistant and light, SPIRABEL® PUA2 is ideal for transporting abrasives: its entirely smooth interior avoids deposits forming and the top-quality polyurethane used offers excellent abrasion-resistance. It has outstanding mechanical qualities: it easily withstands repeated flexing and has good suction-holding properties at temperatures up to 80°C. SPIRABEL® PUA2 is transparent, allowing easy monitoring of product circulation.

SPIRABEL® PU A2 is suitable for transferring hydrocarbons in industry.

CONNECTORS

Guillemín or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX).








Crimping and band collars are not recommended as they do not ensure a perfect seal and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

WARNING

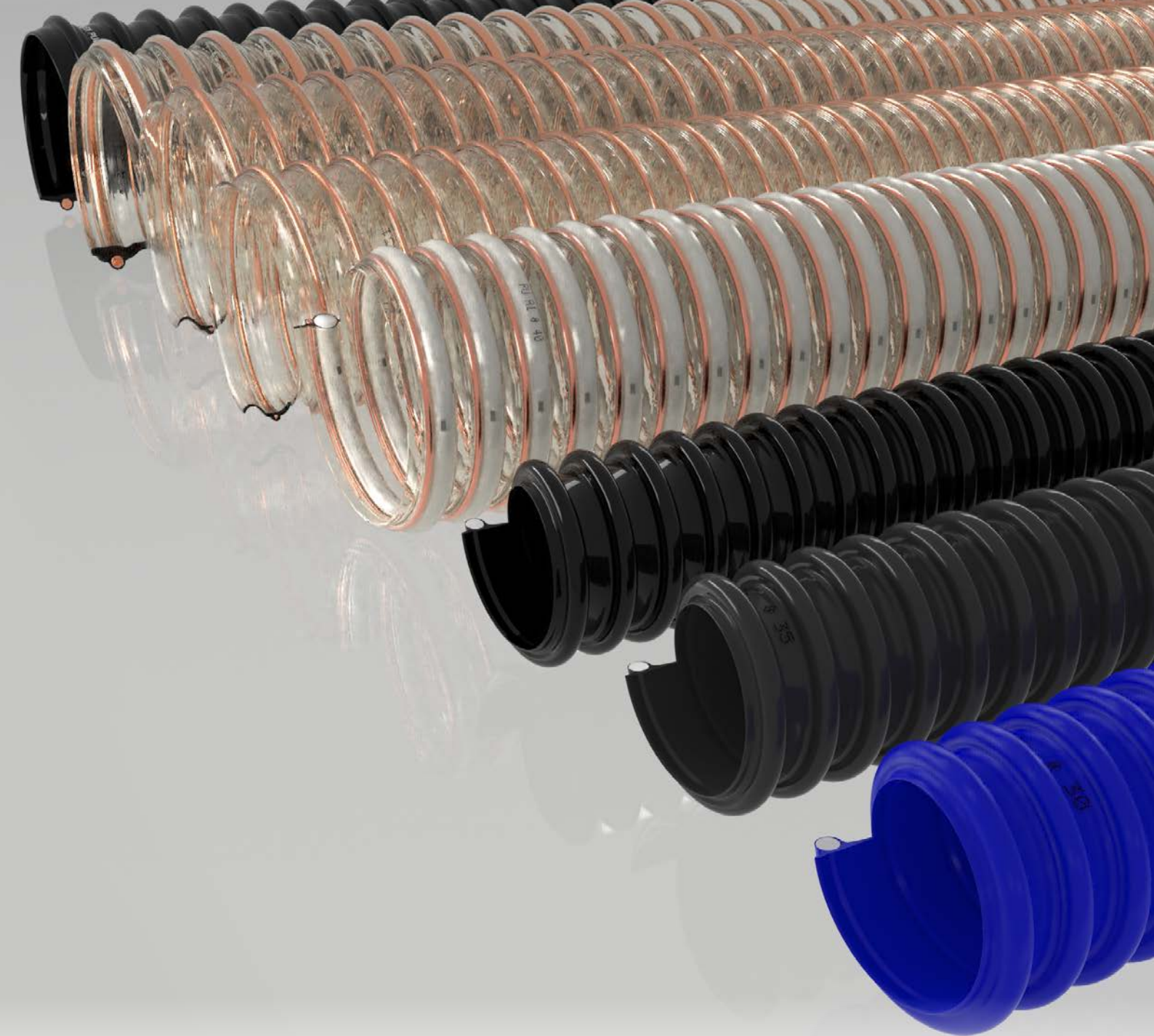
Spiral hoses have in general an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	\pm / $-$ mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent 10 m
40	\pm -1,0	4	448	12	4	900	190	150302
50	\pm -1,0	4,5	640	9	3	800	215	150315
60	\pm -1,0	5	854	9	3	800	230	150328
100	\pm -1,0	6,5	1616	6	2	700	420	150344



Thomas,
Regulator in the Spiral Hose Workshop:
takes to the many single tracks* around Vitry-le-François to let off steam
on his mountain bike.

* narrow paths through the forest



DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

FOOD GRADE

CHEMICAL RESISTANCE CHART OF HOSES

INDEX PRODUCTS BY ARTICLE CODE

GENERAL CONDITIONS OF SALES

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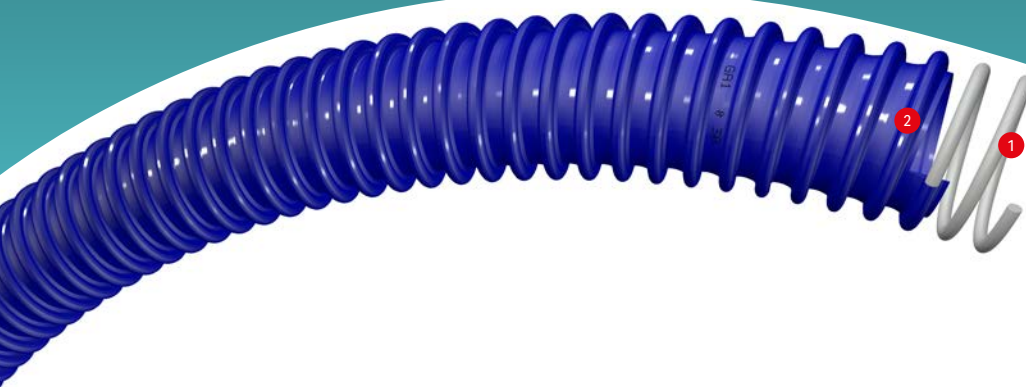
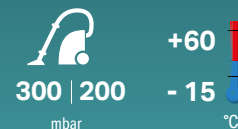
109

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GAINE GA1



- 1 Spiral in rigid PVC
- 2 Wall in soft blue PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes

SECTORS OF ACTIVITY

Industry

MARKING

GA1 Ø inn [Batch number]

ADVANTAGES







Ducting G.A.1 is very light and high flexible. Its smooth inner wall assures low flow losses.

CONNECTORS

Connectors with wire collars or screwed fittings (left hand spiral).

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

 mm	+/- mm	 mm	 mm	 g/m	 mbar	 mm	Blue 30 m
25	+/- 0,8	0,5	2	130	300	25	190813
30	+/- 0,8	0,5	2	150	300	30	190826
35	+/- 1,0	0,5	2,25	180	300	35	190839
38	+/- 1,0	0,5	2,25	200	300	38	190913
40	+/- 1,0	0,5	2,4	210	200	40	190842
50	+/- 1,2	0,5	2,6	340	200	50	190855
63	+/- 1,2	0,5	3	425	200	63	190926

GAINE GA2



- 1 Spiral in rigid PVC
- 2 Wall in soft grey PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes, agricultural spraying

SECTORS OF ACTIVITY

Industry & agriculture

MARKING

GA2 Ø inn [Batch number]

ADVANTAGES

G.A.2 is very light and high flexible. The smooth inner wall reduces flow losses.

CONNECTORS

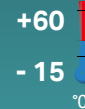
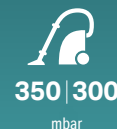
Connectors with wire collars or screwed fittings. (left hand spiral).

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

	+/- mm						Grey			
							10 m	20 m	30 m	50 m
20	±1,0	0,75	2,5	116	550	20				150708
25	±1,0	0,75	3	164	500	25				150711
35	±1,0	0,75	3	232	500	35				150737
38	±1,0	0,75	3	263	500	38				150795
40	±1,0	0,8	3,3	272	500	40				150740
50	±1,0	0,85	4	436	450	50			150753	
60	±1,0	0,85	4	524	400	60			035075	
70	±1,0	0,9	4	620	400	70			035088	
75	±1,0	0,9	4	670	400	75			150853	
80	±1,0	1	4	756	400	80			035133	
90	±1,0	1	4	806	400	90			035120	
100	±1,0	1	4	950	400	100		035098		
110	±1,1	1	4,5	1068	330	110		035104		
120	±1,2	1	4,5	1164	330	120		035146		
125	±1,3	1	5,5	1186	300	125		150811		
140	±1,4	1,1	4,5	1456	300	140		150766		
150	±1,5	1,1	5	1650	300	150		150779		
160	±1,6	1,1	5	1844	300	160	150782			
180	±1,8	1,1	5,5	2134	250	180	150824			
200	±2,0	1,1	5	2328	250	200	035117			
250	±2,5	1,1	6	3250	200	250	150837			

GAINE GA3



- 1 Spiral in rigid shock-proof PVC
- 2 Wall in soft black PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes, small pumps and water delivery (3 bar max.), seed drills

SECTORS OF ACTIVITY

Industry, Horticulture and agriculture

WITHOUT MARKING

ADVANTAGES







Ducting G.A.3 is very light and highly flexible. It has a good mechanical resistance and can even withstand low pressure (3 bar max.)

CONNECTORS

Connectors with wire collars or screwed fittings (right hand spiral).

CHEMICAL RESISTANCE

See table pages 114 to 117 column A.

 mm	+/- mm	 mm	 mm	 g/m	 mbar	 mm	Black	
							25 m	30 m
12	+/- 1,0	1	2,5	105	350	30		167617
20	+/- 1,0	1	2,5	160	350	35		167620
25	+/- 1,0	1	2,7	217	350	40		167633
32	+/- 1,0	1	3,1	260	350	45		167646
40	+/- 1,0	1	3,2	337	300	50	167659	167658

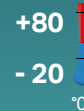
GAINE SPIRABEL® PU A1



(EU) N°10/2011



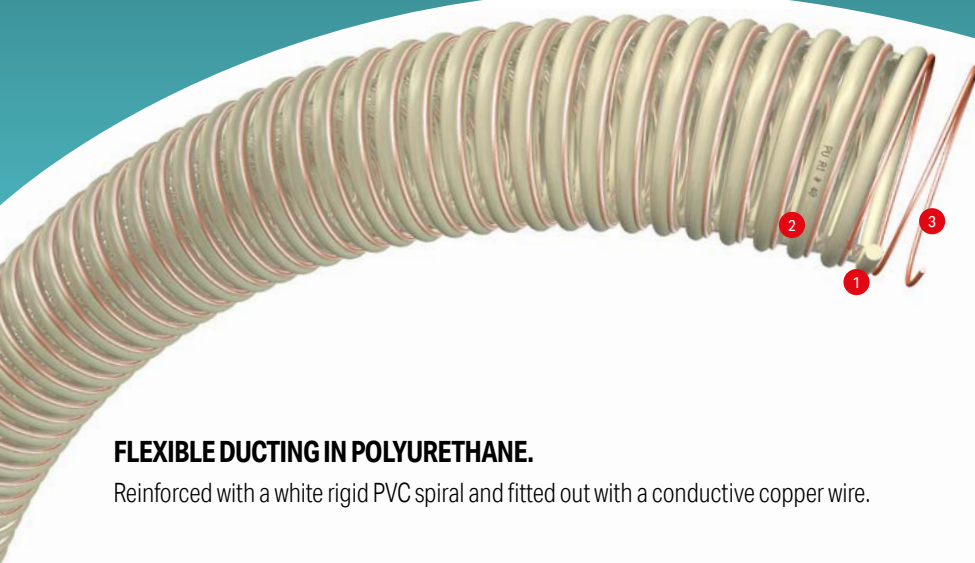
mbar



+80

- 20

°C



- 1 Rigid PVC spiral
- 2 Wall in transparent polyurethane
- 3 Conductive copper wire

FLEXIBLE DUCTING IN POLYURETHANE.

Reinforced with a white rigid PVC spiral and fitted out with a conductive copper wire.

APPLICATIONS

Suction of: sawdust and chips, food powders, air and fumes

SECTORS OF ACTIVITY

Wood industry, food industry, chemical industry

Gaine Spirabel® PU A1
suitable for dried
foodstuffs only.

MARKING

PUA1 Ø inn [Batch number]

ADVANTAGES

P.U.A1 ducting has a very good mechanical resistance but is also very flexible. The copper wire allows an easy connection to dissipate electrostatic charges.

The inner wall is smooth and its transparent allowing the observation of transferred products.

CONNECTORS

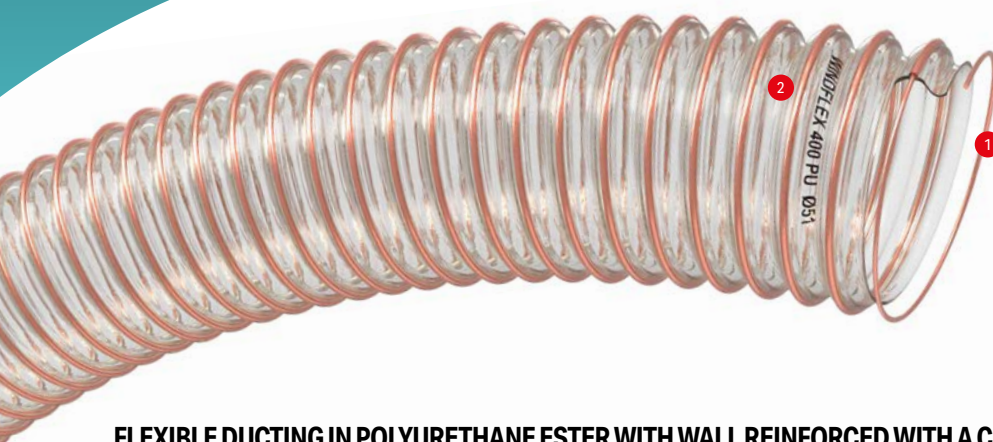
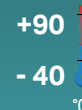
Connectors with wire collars. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

	\pm						Transparent
mm	mm	mm	mm	g/m	mbar	mm	10 m
30	$\pm 0,8$	0,4	3	190	500	45	150128
38	$\pm 0,8$	0,5	3,2	230	400	57	150157
40	$\pm 0,8$	0,5	3,3	250	400	60	150009
45	$\pm 1,0$	0,5	3,4	280	400	67	150160
50	$\pm 1,0$	0,5	3,5	340	400	75	150012
60	$\pm 1,0$	0,5	3,4	410	400	90	150025
63	$\pm 1,0$	0,5	3,6	430	400	94	150186
70	$\pm 1,0$	0,5	4,2	500	400	105	150199
76	$\pm 1,0$	0,5	4,4	550	400	114	150202
80	$\pm 1,0$	0,5	4,5	610	400	120	150031
90	$\pm 1,0$	0,6	4,4	715	400	135	150215
100	$\pm 1,0$	0,6	4,7	820	400	150	150044
110	$\pm 1,1$	0,6	5,2	890	300	165	150228
120	$\pm 1,2$	0,6	5,5	950	300	180	150057
150	$\pm 1,5$	0,7	6,4	1360	300	300	150086
160	$\pm 1,6$	0,8	6,5	1550	300	320	150099
200	$\pm 2,0$	0,8	6,8	2100	300	400	150115

WINDFLEX® 400 PU



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ESTER WITH WALL REINFORCED WITH A COPPERED STEEL WIRE HELIX. SPRING QUALITY.

Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free.

APPLICATIONS

Suction of: Sawdust and chips, air and fumes, oil vapour extraction

SECTORS OF ACTIVITY

Wood industry

delivery in coils
except compressed articles

MARKING

↓ WINDFLEX® 400 PU ↓ Ø int

[Batch number]
Made in France

	mm	+/- mm		g/m		mbar		mm	Transparent		
									5 m	10 m	mini of order (m)
51		0/+2,0	0,4	250	200	26				174733	10
60		0/+2,0	0,4	300	150	30				174734	10
70		0/+3,0	0,4	400	140	35				174747*	30
76		0/+3,0	0,4	380	100	38				174735	10
80		0/+3,0	0,4	400	100	40				174736	10
90		0/+3,0	0,4	440	100	45				174748*	30
102		0/+4,0	0,4	460	90	51				174737	10
120		0/+4,0	0,4	540	80	60				174738	10
127		0/+4,0	0,4	570	80	64				174739	10
140		0/+4,0	0,4	620	60	70				174740	10
152		0/+5,0	0,4	680	60	76				174741	10
160		0/+5,0	0,4	710	50	80				174742	10
180		0/+5,0	0,4	800	50	90				174743	10
203		0/+5,0	0,4	1010	50	102				174744	10
254		0/+5,0	0,4	1260	40	127				174745	10
300		0/+6,0	0,4	1520	30	152				174746	10
350		0/+6,0	0,4	2200	20	175				174749	10
400		0/+6,0	0,4	2520	20	200			174750*		5
500		0/+6,0	0,4	3150	10	250			174751*		5
600		0/+6,0	0,4	4600	10	300			174884*		5



ADVANTAGES

WINDFLEX® 400 PU ducting has high flexibility and very good mechanical resistance, provided by the quality of the wall made from 100% polyurethane. Extremely good abrasion resistance. Excellent flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 114 to 117 column C.

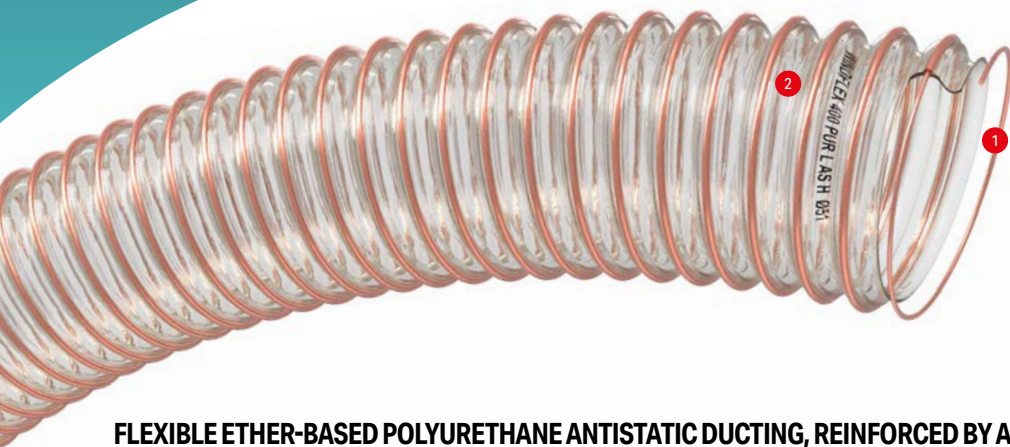
*on request: delivery time 4 weeks

WE HAVE THE POSSIBILITY TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

delivery in coils
except compressed articles



WINDFLEX® 400 AS



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE ANTISTATIC DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED

Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane. Halogen-free.

APPLICATIONS

Industrial ventilation; air, smoke and oil vapour extraction. Suction of sawdust and fine shavings

SECTORS OF ACTIVITY






General industrial use, timber

Continuous use up to
70°C at 6 bar (80° at peak)
Resistivity < 10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

↓ WINDFLEX® 400 AS-H ↓ Ø int

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent		
						5 m	10 m	mini of order (m)
51	0/+2,0	0,4	250	200	26		174678*	30
60	0/+2,0	0,4	300	150	30		174679*	30
70	0/+3,0	0,4	400	140	35		174680*	30
76	0/+3,0	0,4	380	100	38		174681*	30
80	0/+3,0	0,4	400	100	40		174682*	30
90	0/+3,0	0,4	440	100	45		174683*	30
102	0/+4,0	0,4	460	90	51		174684*	30
120	0/+4,0	0,4	540	80	60		174685*	10
127	0/+4,0	0,4	570	80	64		174686*	10
140	0/+4,0	0,4	620	60	70		174687*	10
152	0/+5,0	0,4	680	60	76		174688*	10
160	0/+5,0	0,4	710	50	80		174689*	10
180	0/+5,0	0,4	800	50	90		174690*	10
203	0/+5,0	0,4	1010	50	102		174672*	10
254	0/+5,0	0,4	1260	40	127		174673*	10
300	0/+6,0	0,4	1520	30	152		174674*	10
350	0/+6,0	0,4	2200	20	175		174675*	10
400	0/+6,0	0,4	2520	20	200	174676*		5
500	0/+6,0	0,4	3150	10	250	174677*		5
600	0/+6,0	0,4	4600	10	300	174613*		5

ADVANTAGES

Highly flexible and compressible, the WINDFLEX® 400 AS ducting is resistant to abrasions and repeated bending.

Its ether-based polyurethane inner wall is antistatic throughout. Equipotential bonding can be achieved by connecting the steel spiral at both ends.

The components are RoHS compliant and offer a high level of resistance to hydrolysis and microorganisms.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 114 to 117 column C.

*on request: delivery time 4 weeks

WE HAVE THE POSSIBILITY TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

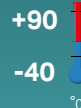
delivery in coils
except compressed articles



WINDFLEX® 600 PU AL



(EU) N°10/2011



- 1 Copper color steel spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ETHER WITH WALL REINFORCED WITH A GALVANIZED STEEL WIRE HELIX. SPRING QUALITY.

Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free.

APPLICATIONS

Suction of: Sawdust and chips, air and fumes, oil vapour extraction

SECTORS OF ACTIVITY

Wood industry

Windflex® 600 PU AL
suitable for dried
foodstuffs only.

MARKING

↓ WINDFLEX® 600 PU (EU) N°10/2011 ↓ Ø inn

[Batch number]
Made in France

	+/-					Transparent		
						5 m	10 m	mini of order (m)
40	0/+2,0	0,6	250	250	25		174720	10
51	0/+2,0	0,6	290	250	32		174721	10
60	0/+2,0	0,6	340	200	37		174719*	30
70	0/+3,0	0,6	430	140	43		174731	10
80	0/+3,0	0,6	500	100	49		174760*	30
90	0/+3,0	0,6	550	100	56		174761*	30
102	0/+4,0	0,6	560	90	63		174722	10
120	0/+4,0	0,6	710	80	74		174723	10
127	0/+4,0	0,6	750	80	78		174730	10
140	0/+4,0	0,6	830	80	86		174762*	20
152	0/+5,0	0,6	900	60	94		174724	10
160	0/+5,0	0,6	940	60	99		174725	10
180	0/+5,0	0,6	1060	50	111		174726	10
203	0/+5,0	0,6	1250	50	125		174727	10
254	0/+5,0	0,6	1560	50	157		174728	10
305	0/+6,0	0,6	1880	30	188		174729	10
350	0/+6,0	0,6	2620	20	216		174763*	10
400	0/+6,0	0,6	3000	20	247	174764*		5
500	0/+6,0	0,6	3750	10	309	174765*		5



ADVANTAGES

WINDFLEX® 600 PU AL ducting is extremely flexible and due to the 100% ether-based polyurethane wall offers very good mechanical resistance. Extremely good abrasion resistance, flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

*on request: delivery time 4 weeks

WE HAVE THE POSSIBILITY TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

delivery in coils
except compressed articles

WINDFLEX® 805 EH



- 1 Sheathed steel spiral
- 2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED IN THE WALL.

Wall thickness of 0.7 to 0.8 mm. Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of all types of powders, pellets, filings, and shavings

SECTORS OF ACTIVITY

All industries, agriculture. Ducting developed especially for roadways.

MARKING

↓ WINDFLEX® 805 PUEH ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent	
						10 m	mini of order (m)
180	0/+5,0	0,7	1950	120	200	174824*	20
200	0/+5,0	0,8	2200	100	222	174825*	20

ADVANTAGES

The WINDFLEX® 805EH ducting offers an excellent compromise between impressive flexibility and tested mechanical resistance. Its wall thickness and helical pitch are adapted to different diameters in order to respond to the needs of today.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

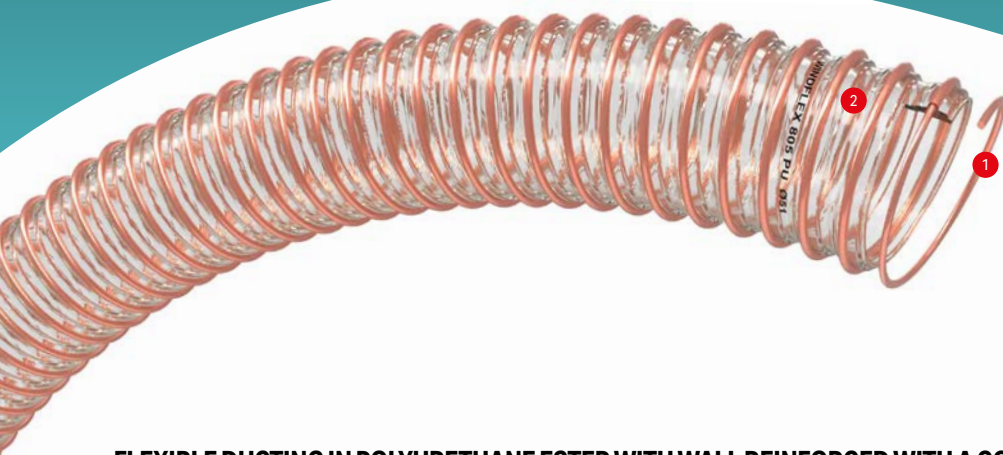
See the Chemical resistance Chart of Hoses pages 114 to 117 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks

WINDFLEX® 805 PU



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ESTER WITH WALL REINFORCED WITH A COPPERED STEEL WIRE HELIX. SPRING QUALITY.

Thickness between 0,5 and 0,8mm. Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free up to and including diameter 160.

APPLICATIONS

Suction of many powders and granules

SECTORS OF ACTIVITY

Agriculture, perfume industry, industries including wood and paper, pastics processing, road maintenance

MARKING

↓ WINDFLEX® 805 PU ↓ Ø inn

[Batch number]
Made in France

mm	+/- mm	mm	g/m	mbar	mm	Transparent		
						5 m	10 m	mini of order (m)
30	0/+2,0	0,5	190	350	27		174772*	20
51	0/+2,0	0,6	405	300	46		174703	10
60	0/+2,0	0,6	470	250	55		174704	10
70	0/+3,0	0,6	550	200	64		174773*	30
76	0/+3,0	0,6	600	200	69		174705	10
80	0/+3,0	0,6	640	150	73		174706	10
90	0/+3,0	0,6	720	150	82		174774	10
102	0/+4,0	0,7	910	150	93		174707	10
120	0/+4,0	0,7	1150	100	109		174708	10
127	0/+4,0	0,7	1230	100	115		174709	10
140	0/+4,0	0,7	1350	100	127		174710	10
152	0/+5,0	0,7	1480	100	138		174711	10
160	0/+5,0	0,7	1550	100	145		174712	10
180	0/+5,0	0,7	2110	100	164		174715	10
203	0/+5,0	0,8	2400	50	185		174716	10
254	0/+5,0	0,8	3000	50	231		174717	10
305	0/+6,0	0,8	3550	50	277		174718	10
350	0/+6,0	0,8	4110	50	318		174775*	10
400	0/+6,0	0,8	4760	20	364	174776*		5
500	0/+6,0	0,8	5880	10	455	174777*		5
600	0/+6,0	0,8	7000	10	545	174615*		5

ADVANTAGES

The WINDFLEX® 805 PU ducting offers an excellent compromise between impressive flexibility and tested mechanical resistance. Its wall thickness and helical pitch are adapted to different diameters in order to respond to the widest range of requests.

The steel spiral is coated in copper-coloured PVC starting from 180 mm in diameter.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

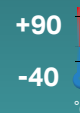
See the Chemical resistance Chart of Hoses pages 114 to 117 column C..

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks

WINDFLEX® 805 AL



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED IN THE WALL.

Wall thickness of 0.7 to 0.8 mm. Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane. Halogen-free.

APPLICATIONS

Suction and expulsion of all types of powders, pellets, filings, and shavings

SECTORS OF ACTIVITY


All industries: agriculture, pharmaceuticals, perfumes, timber and paper, plastics, public roadworks

Windflex® 805 AL
suitable for dried
foodstuffs only.

MARKING

↓ WINDFLEX® 805 PU AL (EU) N°10/2011 ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 m	Transparent		
						5 m	10 m	mini of order (m)
32	0/+4,0	0,7	210	300	29		174813*	30
38	0/+4,0	0,7	270	300	35		174814*	30
40	0/+4,0	0,7	280	300	36		174766*	30
51	0/+4,0	0,7	405	300	46		174781*	30
60	0/+4,0	0,7	470	250	55		174767*	30
70	0/+4,0	0,7	550	200	64		174770*	30
76	0/+4,0	0,7	600	200	69		174779*	30
80	0/+4,0	0,7	640	150	73		174780*	30
90	0/+4,0	0,7	720	150	82		174782*	30
102	0/+4,0	0,7	910	150	93		174793*	10
110	0/+4,0	0,7	1080	150	100		174812*	10
120	0/+4,0	0,7	1150	100	109		174794*	10
127	0/+4,0	0,7	1230	100	115		174795*	10
140	0/+4,0	0,7	1350	100	127		174796*	10
152	0/+5,0	0,7	1480	100	138		174798*	10
160	0/+5,0	0,7	1550	100	145		174799*	10
203	0/+5,0	0,8	2300	50	185		174802*	10
254	0/+5,0	0,8	2900	50	231		174803*	10
300	0/+6,0	0,8	3460	50	277		174804*	10
350	0/+6,0	0,8	3980	50	318		174816*	10
400	0/+6,0	0,8	4550	20	364	174817*		5
500	0/+6,0	0,8	5700	10	455	174818*		5
600	0/+6,0	0,8	7000	10	545	174616*		5

ADVANTAGES

The WINDFLEX® 805 PU ducting offers an excellent compromise between impressive flexibility and tested mechanical resistance. Its wall thickness and helical pitch are adapted to different diameters in order to respond to the needs of today.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 114 to 117 column C.

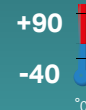
Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks

WINDFLEX® 806 M EL

new



- 1 Sheathed steel spiral
2 Wall in transparent polyurethane



ESTER-BASED POLYURETHANE HOSE REINFORCED WITH A COATED STEEL SPIRAL SPRING. RECOMMENDED FOR APPLICATIONS IN HAZARDOUS AREAS AND EXPLOSIVE ATMOSPHERES.

UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of powders, pellets, abrasive particles, oil fumes.

SECTORS OF ACTIVITY

All industries, timber and paper, plastics, quarries, construction

Resistivity <10⁶ /m
complies with NF EN ISO 8031

MARKING

↓ WINDFLEX® 806 PUR MEL ↓ Ø inn

[Batch number]
Made in France

mm	+/- mm	mm	g/m	mbar	mm	Transparent		
						5 m	10 m	mini of order (m)
40	0/+4,0	0,6	295	300	40		174617*	10
51	0/+4,0	0,7	485	300	51		174618*	10
60	0/+4,0	0,7	570	250	60		174619*	10
70	0/+4,0	0,7	650	200	70		174620*	10
76	0/+4,0	0,7	720	200	76		174621*	10
80	0/+4,0	0,7	760	150	80		174622*	10
90	0/+4,0	0,7	850	150	90		174623*	10
102	0/+4,0	0,7	950	150	102		174624*	10
110	0/+4,0	0,7	1130	150	110		174625*	10
120	0/+4,0	0,7	1240	100	120		174626*	10
127	0/+4,0	0,7	1300	100	127		174627*	10
140	0/+4,0	0,7	1440	100	140		174628*	10
152	0/+5,0	0,7	1560	100	152		174629*	10
160	0/+5,0	0,7	1650	100	160		174630*	10
180	0/+5,0	0,8	2050	100	180		174631*	10
203	0/+5,0	0,8	2300	50	203		174632*	10
225	0/+5,0	0,8	2550	50	225		174633*	10
254	0/+5,0	0,8	2850	50	254		174634*	10
300	0/+6,0	0,8	3450	50	305		174635*	10
350	0/+6,0	0,8	3950	50	350	174636*		5
400	0/+6,0	0,8	4500	20	400	174637*		5
500	0/+6,0	0,8	5650	10	500	174638*		5

ADVANTAGES

Highly flexible and compressible, the WINDFLEX® 806 ducting is made from conductive polyurethane throughout. Its very smooth internal surface reduces pressure loss. It is very resistant to negative pressure and abrasion.

CONNECTORS

Semi-heavy or T-bolt hose clamps. Before assembly, make sure that the connector is not damaging to the inner tube (particularly in the case of poorly deburred and sharp fittings).

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks

WINDFLEX® 1308 PU



- 1 Ducted steel coil
- 2 Translucent polyurethane wall



ESTER-BASED POLYURETHANE HOSE REINFORCED WITH A SPRING-LOADED QUALITY STEEL COIL. RECOMMENDED FOR INTENSIVE USE.

UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of powders, pellets, abrasive particles, oil fumes.

SECTORS OF ACTIVITY

All industries, timber and paper, plastics, quarries, construction

MARKING

↓ WINDFLEX® 1308 PU ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent		
						5 m	10 m	mini of order (m)
40	0/+2,0	0,9	360	450	48		174840*	30
50	0/+2,0	0,9	400	400	60		174841*	30
60	0/+2,0	0,9	490	350	72		174843*	30
70	0/+2,0	0,9	630	350	84		174844*	30
76	0/+2,0	0,9	680	300	91		174845*	30
80	0/+2,0	0,9	700	300	96		174846*	30
90	0/+2,0	0,9	800	300	108		174847*	30
102	0/+2,0	1,1	980	300	122		174848*	10
110	0/+2,0	1,1	1140	250	132		174849*	10
120	0/+2,0	1,1	1240	250	144		174850*	10
130	0/+2,0	1,1	1400	200	156		174852*	10
140	0/+2,0	1,1	1450	200	168		174851*	10
150	0/+2,0	1,2	1550	200	180		174835*	10
160	0/+2,0	1,2	1650	160	192		174853*	10
180	0/+2,0	1,2	1850	150	216		174837*	10
200	0/+2,0	1,2	2350	120	240		174836*	10
225	0/+2,0	1,3	2400	100	270		174639*	10
250	0/+2,0	1,3	2700	100	300		174640*	10
300	0/+2,0	1,3	4100	90	360		174641*	10
350	0/+2,0	1,3	4750	90	420	174642*		5
400	0/+2,0	1,3	5400	80	480	174643*		5
500	0/+2,0	1,3	7300	40	600	174644*		5

ADVANTAGES

The highly flexible WINDFLEX® 1308 PU ducting offers excellent resistance to negative pressure, abrasions and repeated bending. Its extremely smooth internal surface limits pressure loss. Equipotential bonding can be achieved by connecting the steel spiral at both ends.

CONNECTORS

Semi-heavy clamp or bearings. Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks

WINDFLEX® 1500 PU



- 1 Copper color steel spiral
- 2 Transparent polyurethane thick wall



HEAVY DUTY FLEXIBLE HOSE IN TRANSPARENT POLYURETHANE ESTER, REINFORCED WITH A COPPER COLORED STEEL SPIRAL. THICK WALL.

Heavy Standard. PU rated non flammable UL94 V2.

APPLICATIONS

Transport of abrasives : powders, granules, mud, sand, cement, gravel, etc.






SECTORS OF ACTIVITY

Construction, mines

MARKING

↓ WINDFLEX® 1500 PU ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 m	Transparent	
						10 m	mini of order (m)
40	0/+2,0	1,5	440	700	60	174790	10
45	0/+2,0	1,5	490	600	68	174783	30
50	0/+2,0	1,5	550	600	75	174791	10
60	0/+2,0	1,5	750	550	90	174785	50
70	0/+2,0	1,5	860	500	105	174786*	10
76	0/+2,0	1,5	940	500	114	174787*	10
80	0/+2,0	1,5	970	450	120	174788*	50
90	0/+2,0	1,5	1140	450	135	174789*	30
100	0/+2,0	1,5	1320	400	150	174792	10
120	0/+2,0	1,5	1750	300	180	174645*	10
127	0/+2,0	1,5	1820	300	188	174646*	10
140	0/+2,0	1,5	2000	250	210	174647*	10
150	0/+2,0	1,5	2500	200	225	174648*	10
160	0/+2,0	1,5	2650	200	240	174649*	10
180	0/+2,0	1,5	3000	150	270	174650*	10
200	0/+2,0	1,5	3200	150	300	174651*	10

ADVANTAGES

Thick 100% polyurethane polyester wall; chosen for its resistance to abrasion; extruded wall with reinforced steel wire helix. This technique provides a smooth internal wall surface and excellent flexibility while maintaining extreme durability.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

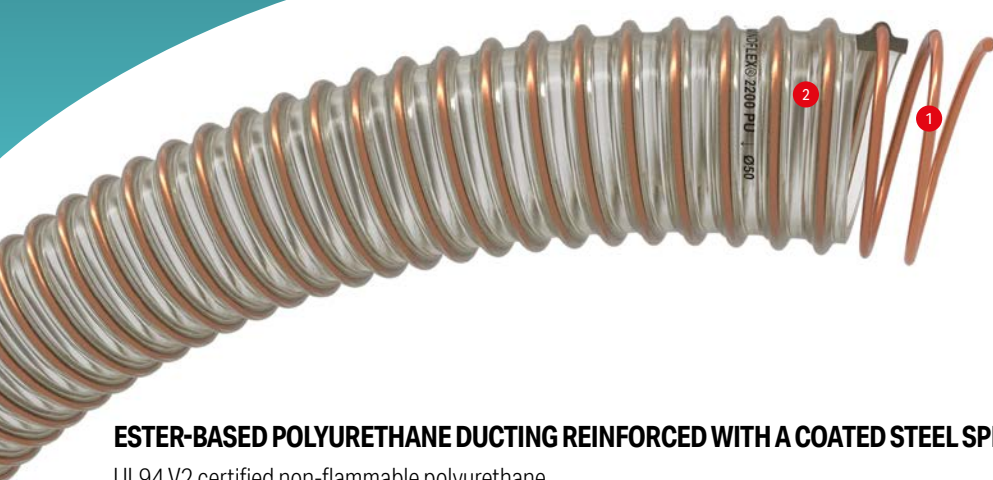
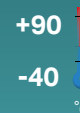
See table pages 114 to 117 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

WINDFLEX® 2200 PU

new



- 1 Copper color steel spiral
- 2 Transparent polyurethane thick wall



ESTER-BASED POLYURETHANE DUCTING REINFORCED WITH A COATED STEEL SPIRAL. RECOMMENDED FOR INTENSIVE USE.

UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of powders, pellets, abrasive particles, filings, shavings, gravel, sand

SECTORS OF ACTIVITY

All industries: timber and paper, plastics, quarries, construction

MARKING

↓ WINDFLEX® 2200 PUR ↓ Ø inn

[Batch number]
Made in France

mm	+/- mm	mm	g/m	mbar	mm	Transparent	
						10 m	mini of order (m)
40	0/+2,0	2,2	750	950	88	174652*	10
45	0/+2,0	2,2	850	950	99	174653*	10
50	0/+2,0	2,2	900	950	110	174654*	10
60	0/+2,0	2,2	1080	950	132	174655*	10
70	0/+2,0	2,2	1260	950	154	174656*	10
76	0/+2,0	2,2	1331	950	167	174657*	10
80	0/+2,0	2,2	1400	950	176	174658*	10
90	0/+2,0	2,2	1600	900	198	174659*	10
100	0/+2,0	2,2	1940	900	220	174660*	10

ADVANTAGES

The durable WINDFLEX® 2200 PU ducting offers excellent resistance to negative pressure, abrasions and repeated bending. Its extremely smooth internal surface limits pressure loss.

Equipotential bonding can be achieved by connecting the steel spiral at both ends.

CONNECTORS

Regular single-wire hose clamps. Before assembly, make sure that the connector is not damaging to the inner tube (particularly in the case of poorly deburred and sharp fittings).

CHEMICAL RESISTANCE

See table pages 114 to 117 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST.
CONSULT US.

*on request: delivery time 4 weeks





FOOD GRADE

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CHEMICAL RESISTANCE CHART OF HOSES

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Information on compliance for food contact

TRICOFLEX certifies that the following hoses are designed for contacts with food products that are compatible with the appointed simulants (A, B, C, D).

Thermoplastic hoses : European Regulation (EU) No. 10/2011 and its amendments

	A	B	C	D
	Ethanol 10%	Acetic acid 3%	Ethanol 20%	D1 = Ethanol 50% D2 = Vegetable oil
Tricoclair® AL	•	•	•	D1
TCF	•	•	•	D1
Cristal	•	•	•	
Tubclair® AL	•	•	•	D1
Profiline Aqua Plus	•	•	•	D1 and D2
Profiline Aqua Plus Soft	•	•	•	D1 and D2
Profiline Aqua Extra Soft	•	•	•	D1
Thermoclean® AL 20	•	•	•	
Super Thermoclean® 40	•	•	•	
Thermoclean® 100 Antimicrobial	•	•	•	
Spirabel® SI	•	•	•	
Spirabel® SNT-S	•	•	•	D1
Spirabel® MDSF AL	•	•	•	D1
Spirabel® Vendanges SF	•	•	•	D1
Spire Acier	•	•	•	D1
Spirabel® PUA2		Nonfat dried foodstuffs only		
Spirabel® PUA1		Nonfat dried foodstuffs only		
Windflex® 600 PU AL		Nonfat dried foodstuffs only		
Windflex® 805 PU AL		Nonfat dried foodstuffs only		

Silicon hoses : French order from 25/11/1992

	A	B	C	D
	Ethanol 10%	Acetic acid 3%	Ethanol 20%	D1 = Ethanol 50% D2 = Vegetable oil
Vitryl	•	•	•	D1

According to the European Regulation N°1935/2004, those hoses are identified with the glass + fork logo:

For an easier identification, the number of the Regulation is joined to the glass + fork logo, both on the marking of the hose and on the label of the coil:

Xavier ANDRÉ
Chief Technical Officer, Innovation & Quality



Food compatibility chart of hoses



TRICOLAIR AL	TOF	CRISTAL	TUBCLAIR AL	PROFILINE AQUA PLUS	PROFILINE AQUA PLUS SOFT	PROFILINE AQUA EXTRA SOFT	THERMOCLEAN® AL 20	SUPER THERMOCLEAN®	THERMOCLEAN® 40	SPIRABEL® SJ	SPIRABEL® SNT-S	SPIRABEL® MDSF AL	SPIRABEL® VENDANGES SF	SPIRABEL® ACIER	SPIRABEL® PUA1	WINDFLEX® 600 PU AL & 805 AL	VITRYL®

Non-alcoholic beverages

Mineral waters	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Juices and Nectars	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Juices, nectars and fruit musts with pulp	●	●		●	●	●	●				●	●	●	●			●
Lemonades, sodas	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Syrups	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Vegetable juice	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Coffee	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Tea	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Infusions	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Liquid chocolate	●	●		●	●	●	●				●	●	●	●			●

Drinks with less than 5% alcohol

Ciders	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Musts	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Beers	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Bitters	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●

Drinks with 6% to 20% alcohol

Wines	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Spirits, liqueurs	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●
Cream liqueurs	●	●		●	●	●	●			●	●	●	●	●			●

Drinks with 20% to 50% alcohol

Spirits, liquors	●	●		●	●	●				●	●	●	●				●
------------------	---	---	--	---	---	---	--	--	--	---	---	---	---	--	--	--	---

Drinks with more than 50% alcohol

Spirits, liquors				●	●												
------------------	--	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--	--

Bakery products

Cereals, starches and yeast														●	●	●	
Flour and semolina														●	●	●	
Dried or fresh fat-containing substances				●	●												
Dried or fresh nonfat substances														●	●	●	
Cocoa powder														●	●	●	
Cocoa paste				●	●												

Made products

Chocolate and chocolate-coated products				●	●												
With fatty substances				●	●												
As a non-greasy dough	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Sugar and sugar products in solid form														●	●	●	
Molasses, sugar syrups, honey	●	●	●	●	●	●	●	●	●	●	●	●	●				●

Fruits and vegetables

Dried or dehydrated														●	●	●	
Jams, compotes, puree	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Preparations in water or in juice	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Preparations in oil				●	●												
Preparations in alcohol	●	●		●	●	●				●	●	●	●				●

Food compatibility chart of hoses



TRICOLAIR AL	TOF	CRISTAL	TUBCLAIR AL	PROFILINE AQUA PLUS	PROFILINE AQUA PLUS SOFT	PROFILINE AQUA EXTRA SOFT	THERMOCLEAN® AL 20	SUPER THERMOCLEAN®	THERMOCLEAN® 40	SPIRABEL® SJ	SPIRABEL® SNT-S	SPIRABEL® MDSF AL	SPIRABEL® VENGANGES SF	SPIRABEL® ACIER	SPIRABEL® PUA1	SPIRABEL® PUA2	WINDFLEX® 600 PU AL & 805 AL	VITRYL®
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Walnuts, hazelnuts, peanuts (etc...)

Dried, flaked or powdered
Peeled and roasted
As a paste or cream

Liquids or thick soups

Containing fatty products
Fat products

Dehydrated soup powder

Containing fatty products
Fat free products

Fats and oils

Plants and animals in all their forms
Butters and margarines

Meat and fish

Fresh, chilled, salted, smoked
Canned fish in water
Canned fish in oil
Meats
Meat paste form or cream

Eggs

Powder, dried or frozen
Liquid and cooked

Dairy

Milk and milk drinks
Dried milk powder
Fermented milk and yoghurt
Cream
Mozzarella
Ice

Condiments

Salt
Vinegar
Fatty sauces, mayonnaise
Non-fat sauces
Mustard
Aromatic plants (Lime, mint...)
Spices and aromates (cinnamon, pepper...)
Spices and aromates in oily environments (pesto...)

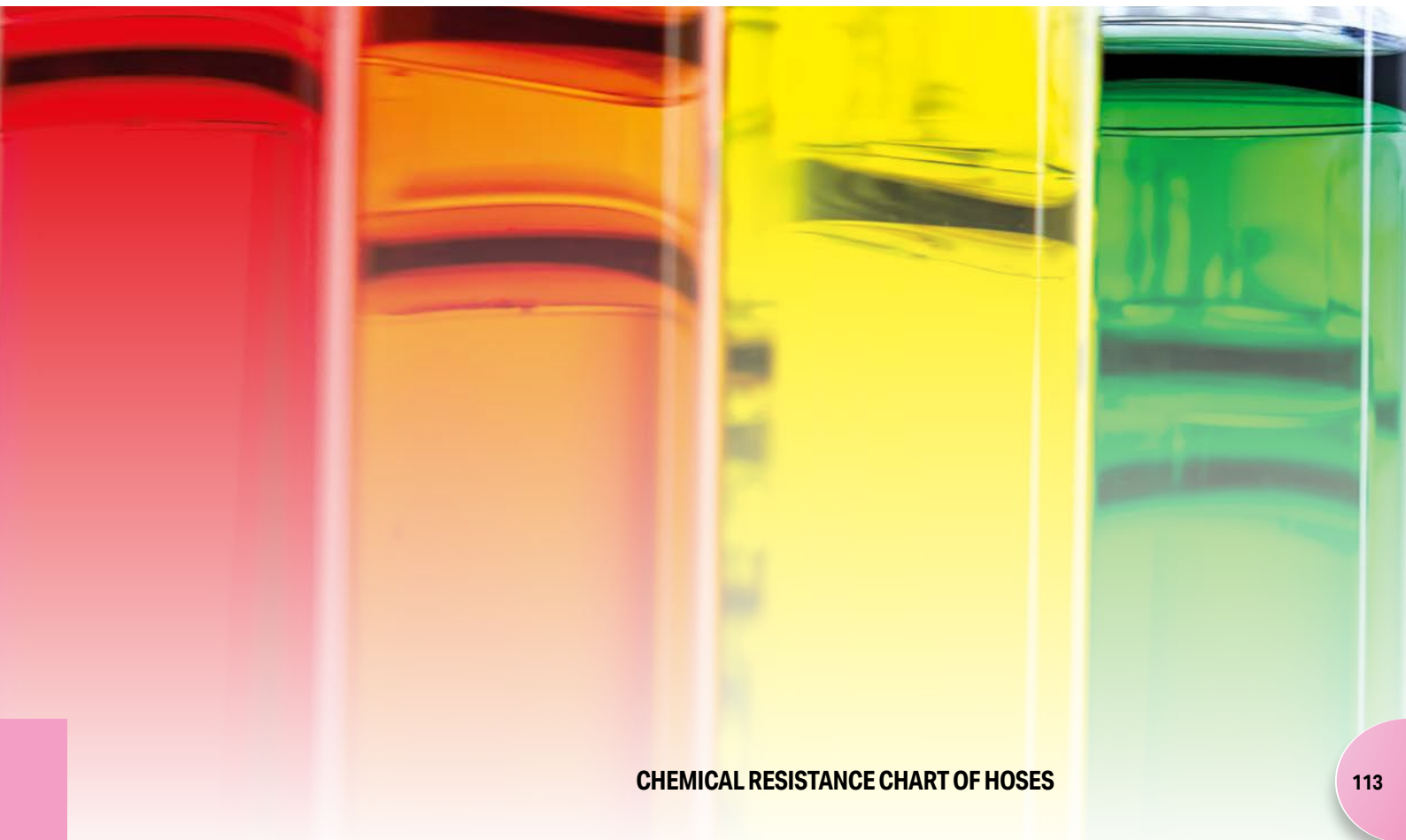


Carlos,
Material Coordinator:
is a striker for the
Heiltz-L'Evêque football club

Franck aka "Pépette",
Order Picker:
part of the Portugais Unis
& Vitry-en-Perthois clubs

Vasile,
Regulator in the NRH* Workshop:
likes to walk in his spare time

*Non-reinforced hoses



CHEMICAL RESISTANCE CHART OF HOSES

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Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

Chemical resistance : 1 = Good 2 = Limited X = Not compatible	A		B		C		D		E		F		G		H	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamide 6-12		Silicone		PTFE	
	Standard and TRICOLAIR®		Special chemical formula		TECHNOBEL® PU, Tube PU calibré		TECHNOBEL®		Profiline Aqua+ Profiline Aqua+Soft		Tube PA calibré		VITRYL®		Tubes PTFE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Acetaldehyde	x	x	x	x	x	x	1	2	1	1	2	x	1	1	1	1
Acetamide	x	x			x	x	x	x	1	2	1				1	1
Acetic acid 10%	1	2	1	2	x	x	2	x	1	1	2	x	1	1	1	1
Acetic acid 25%	1	2	1	2	x	x			1	1	x	x	1	1	1	1
Acetic acid 50%	2	x	2	x	x	x			1	1	x	x	x	x	1	1
Acetic anhydride	x	x	x	x	x	x			2	x	2	x	1	1	1	1
Acetone	x	x	x	x	2	x	x	x	1	2	1	2	2	2	1	1
Acetophenone	x	x	x	x			1	1	1	2	1				1	1
Acetylene	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1	1
Acrylonitrile	1	1	1	1	x	x	2	2	1	1			1	1	1	1
AdBlue®	1		1		1	x	1		1	1	2		1		1	1
Aliphatic hydrocarbons	x	x	1	2	1		1				1					
Allyl chloride	x	x	x	x	x		1	2	x	x			1	1	1	1
Alum	1	1	1	1	1	2	2	2	1	1			1	1	1	1
Aluminium chloride	1	1	1	1	1	2	1	2	1	1	1	1	x	x	1	1
Aluminium fluoride	1		1		x	x	1	2	1	1			1	1	1	1
Aluminium hydroxide	1		1		2				1				1	1	1	1
Aluminium sulfate	1	1	1	1	1	2	1	2	1	1	1		1	1	1	1
Ammonia (gas)	1		1		2	2	1	2	1	1	1		2	2	1	1
Ammonia (in water)	x	x	x	x	2	x	x	x	1	1	2	x	1	1	1	1
Ammonium Acetate	1	1	1	1	1	2	1	2	1	1					1	1
Ammonium chloride	1	1	1	1	1	2			1	1			1	1	1	1
Ammonium hydroxide	1	2	1	2	1				1				1	1	1	1
Ammonium metaphosphate	1		1		1				1				1	1	1	1
Ammonium nitrate	1	1	1	1	1	2	1	x	1	1			1	1	1	1
Ammonium persulfate	1		1		2				1				1	1	1	1
Ammonium phosphate	1	1	1	1	1		2	x	1	1			1	1	1	1
Ammonium sulfate	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1
Ammonium thiocyanate	1		1		2				1				1	1	1	1
Amyl acetate	x	x	x	x	x	x	2	2	1	1	2		x	x	1	1
Amyl alcohol	1	2	1	2	2	x	1	2	1	1	1	2	2	2	1	1
Aniline	x	x	x	x	x	x			1	1	2		1	1	1	1
Aniline colouring	1	1	1	1	x	x	2	x	x	x			2	2	1	1
Antimony chloride 50%	1		1		2		2	2	1				x	x	1	1
Arsenic acid	1		1		x	x			1				2	2	1	1
Asphalt	x	x	x	x	x	x							2	2	1	1
Baryum carbonate	1		1		1				1				1	1	1	1
Benzaldehyde	x	x	x	x	x	x	x	x	1	1	2	2	x	x	1	1
Benzene	x	x	x	x	x	x			2	x	1	1	x	x	1	1
Benzyl alcohol	x	x			2	x	x	x	1	2	x	x			1	1
Benzyl chloride	x	x	x	x	x	x	1	2	x	x					1	1
Biodiesel	x	x			1				1		1					
Bisulfite detergents							1	x								
Bitumen	x	x	x	x							1				1	1
Bleach	1	2	1	2	2	x	x	x	1	1	x	x	1	1	1	1
Borax	1	2	1		1	2	x	x	1	1	x	x	1	1	1	1
Boric acid 10%	1	1	1	1	2	x	1	x	1	1	1	x	2	2	1	1
Bromhydric acid 10%	1	1	1	1	x	x	x	x	1	1			x	x	1	1
Bromhydric acid 50%	x	x	x	x	x	x	x	x	1	1			x	x	1	1
Bromine	x	x	x	x	x	x	2	x	x	x	x	x	x	x	1	1
Bromobenzene	x	x	x	x			x	x	x	x			x	x	1	1
Butane			1	2	1	1	x	x	1	1	1		2	2	1	1
Butyl acetate	x	x	x	x	x	x	2	2	1	1	1	1	2	2	1	1
Butyl alcohol	1	2	1	2	2	x	1	2	x	x	1	2	1	1	1	1
Butyl ether	1		1		x				1				x	x	1	1
Butyl glycol	x	x	x	x	x	x			1				2	2	1	1
Butyl stearate	x	x	x	x	1		x	x	x	x			1	1		
Butyric acid	1		1		x	x			1	1			x	x	1	1
Calcium bisulfite	1	1	1	1	1		1	x	1	1			1	1	1	1
Calcium carbonate	1		1		1				1				1	1	1	1
Calcium chlorate	1		1		1				1				1	1	1	1
Calcium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Calcium hydroxide	1	1	1	1	1				1				1	1	1	1
Calcium hypochlorite 15%	1		1		x	x	x	x	1				x	x	1	1
Calcium sulphide	1		1		x				1				x	x	1	1
Carbon bisulfur					x	x	x	x	2	2			x	x	1	1
Carbon dioxide (wet)	1	2	1	2	2	x			1		1	x	1	1	1	1
Carbon dioxide (dry)	1	1	1	1	1		1		1	2	1		1	1	1	1
Carbon monoxide	1	1	1	1	1	1	1	1	1	1	2	x	1	1		
Carbon sulfide	x	x	x	x	2	x	x	x	x	x	1	x	2	2	1	1
Carbon tetrachloride	x	x	x	x	x	x	x	x	x	x	2	x	2	2	1	1
Carbonic acid	1		1		1				1	1					1	1
Castor oil	x	x	1	1	1	1	1	1	1	2	1		1	1	1	1
Chloracetic acid	x	x	x	x	x	x	x	x	1	1	x	x	1	1	1	1
Chlorine (dry)	x	x	x	x	x	x	x	x	2	x	x	x	x	x	1	1
Chlorine (wet)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

Chemical resistance : 1 = Good 2 = Limited X = Not compatible	A		B		C		D		E		F		G		H	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamide 6-12		Silicone		PTFE	
	Standard and TRICOCCLAIR®		Special chemical formula		TECHNOBEL® PU, Tube PU calibré		TECHNOBEL®		Profiline Aqua+ Profiline Aqua+Soft		Tube PA calibré		VITRYL®		Tubes PTFE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Chlorine water	1	x	1	x	2	x	x	x	1	2	2	x	2	2	1	1
Chlorobenzene	x	x	x	x	x	x	x	x	2	2	2	x	2	2	1	1
Chloroform	x	x	x	x	x	x			x	x	x	x	x	x	1	1
Chlorosulfonic acid	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1
Chromic acid 50%	x	x	x	x	x	x	x	x	1	2	x	x	x	x	1	1
Citric acid	1		1		2	x	1	1	1	1	2	x	x	x	1	1
Coal tar	x	x	x	x			1	2			1	2			1	1
Cooking oil					1		x		1	2	1				1	1
Copper Acetate					1	2	1	2	1	1			1	1	1	1
Copper arsenate					1				1				1	1	1	1
Copper chloride	1	1	1	1	1	2			1	1	2	2	1	1	1	1
Copper cyanide					2				1	1			1	1	1	1
Copper nitrate					x				1				1	1	1	1
Copper sulfate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
Creosote oil	x	x	1	2			2	x	x	x	1		2	2	1	1
Cresols	x	x	x	x	x	x	x	x	2	x	x	x	2	2	1	1
Cyanhydric acid					2	x	1	x	1	1					1	1
Cyclohexane	1	1	1	1	2	x	1	x	1	1	1	2	x	x	1	1
Cyclohexanol	x	x	x	x	x	x	x	x	1	1	1	x			1	1
Cyclohexanone	x	x	x	x	x	x	x	x	2	2	1	x	2	2	1	1
Decalin							1	2	2	x					1	1
Diacetone	x	x	x	x	x	x	x	x	x	x					1	1
Diacetone alcohol	x	x	x	x	2	x	x	x	1	1	1		1	1	1	1
Dibutyl phtalate	x	x	x	x	x	x			x	x			2	2	1	1
Dichlorethane	x	x	x	x	x	x	x	x	x	x			x	x	1	1
Diesel oil	x	x	1	2	1	2	1	2	1		1	1	x	x	1	1
Diethyl ether	x	x	x	x	2				x	x			x	x	1	1
Diethylamine	x	x	x	x			x	x					1	1	1	1
Diethylene glycol	1		1		2	2	1	2	1	1	2		1	1	1	1
Dimethylamine	x	x	x	x			x	x	2	2					1	1
Dimethylformamide	x	x	x	x	x	x	x	x	1	2	2				1	1
Dioxane	x	x	x	x			1	2	2	2	1	2	1	1	1	1
Diphenyl							1	2	1	1	1				1	1
E85	x	x	x	x	1	1	1	2	x	x	1	x	x	x	1	1
Engine oil											1					
Ethanolamine	x	x	x	x	2		x	x	1		1				1	
Ethyl acetate	x	x	x	x	x	x	2	2	2	2	1	1	1	1	1	1
Ethyl acrylate	x	x	x	x			1	2					1	1	1	1
Ethyl alcohol <50%	1	2	1	2	2	x	1	2	1	2	2	x	1	1	1	1
Ethyl alcohol >50%	x	x	2	x	2	x	1	2	1	2	2	x	1	1	1	1
Ethyl benzene	x	x	x	x	x	x	x	x	2	2					1	1
Ethyl cellulose							2	x					2	2	1	1
Ethyl chloride	x	x	x	x	x	x			x	x			x	x	1	1
Ethyl ether	x	x	x	x	2	x	1	x	x	x			x	x	1	1
Ethyl mercatan	x	x					1	2	x	x					1	1
Ethylene					1	1	1	2							1	1
Ethylene chloride	x	x	x	x	x	x	1	2	x	x	2	2	x	x	1	1
Ethylene diamine							x	x	1	1			1	1	1	1
Ethylene glycol	2	x	2	x	2	x	1	2	1	x	2		1	1	1	1
Ethylene glycol 30%	1	2	1	2	2	x	1	2	1	1	1		1	1	1	1
Fat	x	x				x		x	1		1				1	2
Ferric chloride	1	1	1	1	1	2	2	2	1	1	1		1	1	1	1
Ferric sulphate	1		1		2				1	1			1	1	1	1
Ferrique sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1
Ferrous chloride	1		1		x		1	2	1	1	1		1	1	1	1
Fluorhydric acid 10%	1	x	1		2				2	2			2	2	1	1
Fluorhydric acid 30%	x	x	x	x	2				2	x			2	2	1	1
Fluorhydric acid 40%	x	x	x	x	x	x	x	x	x	x	x	x	2	2	1	1
Fluoride Boric acid 65%	1		1		x	x			1				1	1	1	1
Fluoride silicic acid					x	x			1				2	2	1	1
Fluorine	x	x	x	x	x	x	x	x	1	1	x	x	x	x	1	1
Fluosilicic acid 30%					x	x	1	x	1	1			x	x	1	1
Formaldehyde 40%	2	x	2	x	2		2	x	1	1			1	1	1	1
Formic acid 10%	2	x	x	x	x	x	1	x	1	2			1	1	1	1
Formic acid 80%	x	x	x	x	x	x	2	x	1	1	x	x	2	2	1	1
Freon 11, 113, 114, 12, 21, 22	x	x	x	x	x	x	1	x	2	2	1	2				
Fuel oil	x	x	1	2	1	2	1	2	2	x	1	1	x	x	1	1
Furan (furfuran)							1	2					2	2	1	1
Furfural	1	1	1	1	x	x	1	2	x	x					1	1
Gallic acid	1		1		x	x			1				1	1	1	1
Gelatin	1	1	1	1	1	1	1	1	1	1			1	1	1	1
Glucose	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1
Glycerol	x	x	x	x	1	1	1	1	1	1	1	2	1	1	1	1
Glycol chlorohydrin							2	x	1	1	x	x			1	1
Halogenated hydrocarbons	x	x			x		2				2					
Hexane	x	x	1	2	2	x	1	x	1	1	1	2	x	x	1	1

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Hydraulic oil											1					
Hydrazine	x	x	x	x			x	x	1	1			1	1	1	1
Hydrochloric acid (concentrated)	2	x	2	x	x	x	x	x	1	1	x	x	2	2	1	1
Hydrochloric acid 15%	1	1	1	1	2	x	x	x	1	1	x	x	1	1	1	1
Hydrogen peroxide 10%	1	2	1	2	2				1	2	x	x	1	1	1	1
Hydrogen peroxide 30%	1	x	1	x	2	x	2	x	1	2	x	x	1	1	1	1
Hydrogene	1	1	1	1	1	1	1	1	1	1					1	1
Hydrogene sulfide	x	x	x	x	2	x	1	1	1				1	1	1	1
Hydroquinone	1		1				1	1	1	1					1	1
Isobutyl alcohol					2	x	1	2	2	2					1	1
Isocetane	x	x	1	2	1	1	x	x	2	x	1				1	1
Isopropyl Acetate	x	x	x	x	x	x	2	2					2	2	1	1
Isopropyl ether	x	x	x	x	2	x	2	x	x	x					1	1
Isopropyl alcohol	1	2	1	2	2	x	1	2	1	1	2		2	2	1	1
Kerosene J.P.1	x	x	1	2	1		1	x	x	x	1	2	x	x	1	1
Kerosene J.P.4	x	x	1	2	1		1	x	x	x	1	1	x	x	1	1
Lactic acid 10%	x	x	x	x	2	x	1	x	1	2	1	1	1	1	1	1
Lead arsenate	1		1		1		1	2	1				1	1	1	1
lime	1	1	1	1	1	2							1	1	1	1
Lubricating oil	x	x	1	2	1	1	1	1							1	1
Magnesia					1	1	1	1	1	1					1	1
Magnesium carbonate	1		1		1				1				1	1	1	1
Magnesium chloride	1	1	1	1	1	2			1	1			1	1	1	1
Magnesium hydroxide	1	1	1	1	1				1		1		1	1	1	1
Magnesium Nitrate	1		1		2				1				1	1	1	1
Magnesium sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Manganese sulphate	1		1		2				1				1	1	1	1
Mercuric chloride	x	x	x	x	1	2	1	2	1	1			1	1	1	1
Mercury	1	1	1	1	1		1	1	1	1					1	1
Methane					1	1	1	1	1	1	1		x	x	1	1
Methyl Acrylate							1	2	1	1						
Methyl alcohol 6%	1	1	1	1	1	2	1	2	1	1	x	x	1	1	1	1
Methyl bromine	x	x	x	x					x	x					1	1
Methyl chloride	x	x	x	x	x	x	x	x	x	x	1		x	x	1	1
Methyl ethyl ketone	x	x	x	x	x	x	1	x	2	x	1	1	2	2	1	1
Methyl isobutyl ketone	x	x	x	x	x	x	2	x			1	2	2	2	1	1
Methyl methacrylate	x	x	x	x	x	x	1	x	1	1			2	2		
Mineral oil	x	x	1	1	1	1	1	1	1	1	1	1	2	2	1	1
Monochlorobenzene	x	x	x	x	x	x			x	x			x	x	1	1
Naphta (light oil)	x	x	x	x	2		1		1	x	1	1			1	1
Naphtalene	x	x	x	x	2		2	x	1	2	1		x	x	1	1
Natural gas	1	1	1	1	1		1	1	1						1	1
Nickel chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Nickel nitrate	1		1		2				1				1	1	1	1
Nickel sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Nitric acid 25%	1	x	1		x	x	2		1	1	x	x	x	x	1	1
Nitric acid 40%	2	x	2		x	x	2		1	2	x	x	x	x	1	1
Nitric acid 60%	x	x	x		x	x	x	x	2	2	x	x	x	x	1	1
Nitrogene	1	1	1	1	1	1	x	x	1	1					1	1
Nitrogene peroxide							1	2					2	2	1	1
Nitromethane	x	x	x	x			x	x							1	1
Octylsebacate	x	x	x	x			1	x							1	1
Oil (ASTM n°1)	x	x	1	2	1	1	1	1			1		1	1		
Oil (ASTM n°2)		x	1	x	1	2	1	1	1		1					
Oil (ASTM n°3)	x	x	1	2	1	2	1	2			1		1	1		
Oleic acid	x	x	x	x	2	x	1	2	1	1	1		x	x	1	1
Ortho-dichlorobenzene	x	x	x	x	x	x	x	x					x	x	1	1
Oxalic acid	x	x	x	x	x	x	2	x	1	1	1	1			1	1
Ozone	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Palmitic acid	x	x	x	x	1		1	1	1	1	1		1	1	1	1
Paradichlorobenzene	x	x	x	x	1		x		x	x	2	x	x	x	1	1
Paraffin oil									1	2	1					
Paraformaldehyde					x	x							1	1	1	1
Pentane	x	x	1	2					x	x			x	x	1	1
Perchloric acid	1		1		x	x			1				1	1	1	1
Perchloroethylene	x	x	x	x	2	x	x	x	x	x	1	x	x	x	1	1
Petrol	x	x	x	x	1	2	1	2	2	x	1	1	2	2	1	1
Petrol, lead-free	x	x	2	x	1	2	1	2	1	2	1	1			1	1
Phenol	x	x	x	x	x	x	x	x	2	2	2	x	1	1	1	1
Phenylhydrazine	x	x	x	x			1	2	x	x					1	1
Phosphoric acid 30%	1	1	1	1	2	x	2	x	1	1			1	1	1	1
Phosphoric acid 85%	1		1		x	x			1		2	x	x	x	1	1
Picric acid (water sol'n)					x	x	1	x	1	1			1	1	1	1
Potash (concentrated)	1	x	1	x	x	x	x	x	1	1	1	1			1	1
Potash 10%	1	x	1	x	2	x	x	x	1	1	1	1			1	1

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

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Chemical resistance : 1 = Good 2 = Limited X = Not compatible	A		B		C		D		E		F		G		H	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamide 6-12		Silicone		PTFE	
	Standard and TRICOCLAIR®		Special chemical formula		TECHNOBEL® PU, Tube PU calibré		TECHNOBEL®		Profiline Aqua+ Profiline Aqua+Soft		Tube PA calibré		VITRYL®		Tubes PTFE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Potassium bicarbonate	1		1		2				1				1	1	1	1
Potassium borate	1		1		1		1	1	1				1	1	1	1
Potassium bromine	1		1		1		1	1	1	1			1	1	1	1
Potassium carbonate (potash)	1		1		x	x	1	2	1	1	1		1	1	1	1
Potassium chlorate	1		1		2				1	1	x		2	2	1	1
Potassium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Potassium cyanide	x	x	x	x	x	x	1	2	1	1			1	1	1	1
Potassium dichromate					2				1	1			1	1	1	1
Potassium hydroxide	1	2	1	2	2	x	x	x	1	2	2		x	x	1	1
Potassium nitrate	1		1		1				1				1	1	1	1
Potassium permanganate 10%	1		1		2	x			1	1	x	x	1	1	1	1
Potassium sulfate	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1
Potassium sulfide	1		1		1				1				x	x	1	1
Propane	x	x	1	2	1	1	1	1	1	1	1	1	x	x	1	1
Propylene							1	1							1	1
Propylene oxide	x	x	x	x			x	x					x	x	1	1
Pure acetic acid	x	x	2	x	x	x	x	x	x	x	x	x			1	1
Pyridine	x	x	x	x	x	x	x	x	2	x	1	x	2	2	1	1
Sea water	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Seed oil					2	2	x	x	x	x			1	1	1	1
Silicone oil	x	x	1	2	1	1	1	1	1	1			1	1	1	1
Silver nitrate	1		1		1				1		1		1	1	1	1
Soda (concentrated)	1	x	1	x	x	x	x	x	1	1	2	x	2	2	1	1
Soda (diluted at 10%)	1	x	1	x	2	x	x	x	1	1	1	2	1	1	1	1
Sodium Acetate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
Sodium bicarbonate	1	1	1	1	2		1	x	1		1		1	1	1	1
Sodium Bisulfate	1	1	1	1	x	x	1	x	1				1	1	1	1
Sodium carbonate	1		1		1	2	1	2	1	1	1		1	1	1	1
Sodium chlorate	1		1		2		x	x	1	1	x	x	1	1	1	1
Sodium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Sodium cyanide	1	2	1	2	x	x	1	2	1	1			1	1	1	1
Sodium fluoride	1		1		2				1				2	2	1	1
Sodium fluoride aluminate 10%	1		1		2				1				2	2	1	1
Sodium hydroxide (concentrated)	1	x	1	x	x	x	x	x	1	1	2	x	2	2	1	1
Sodium hydroxide (diluted at 10%)	1	x	1	x	2	x	x	x	1	1	1	2	1	1	1	1
Sodium hypochlorite 15%	1	x	1	x	2	x	x	x	1		x	x	2	2	1	1
Sodium hypochlorite 30%	1	x	1	x	x				2		x	x	x	x	1	1
Sodium hyposulfite	1	1	1	1	2	x	x	x	1	1			1	1	1	1
Sodium nitrate	1	1	1	1	1	2	1	x	1	1			1	1	1	1
Sodium nitrite					1				1		2		1	1	1	1
Sodium perborate	1		1		x	x	1	x	1	2					1	1
Sodium peroxide	1	1	1	1	x	x	x	x					x	x	1	1
Sodium phosphate	1	1	1	1	2		1	x	1	1	1		1	1	1	1
Sodium silicate	1	1	1	1	2	x	1	2	1	1	1		1	1	1	1
Sodium sulfate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Sodium sulfide	1	1	1	1	1		1	2	1	1	1	2	1	1	1	1
Stearic acid (Fatty acid)	1	1	1	1			1	2	1	1			2	2	1	1
Styrene	x	x	x	x	2	x	x	x	2	2			2	2	1	1
Sulfamic acid 10%	1	1	1	1	1	2	1	1	1	1			1	1	1	1
Sulfur chloride	x	x	x	x	1	2	2	2	x	x			x	x	1	1
Sulfur dioxide	1		1		x	x			1	1	2		2	2	1	1
Sulfur Trioxide	1		1		2				1	x			x	x	1	1
Sulfuric acid 10 to 30%	1	1	1	1	2	x	2		1	1	x	x	2	2	1	1
Sulfuric acid 40 to 98%	x	x	x	x	x	x	x	x	1	x	x	x	x	x	1	1
Sulfuric anhydride (dry)					2	x	x	x	2	2			2	2	1	1
Sulfurous acid 10%	2		2		2				1	1			x	x	1	1
Sulfurous acid 75%	x	x	x	x	x	x			1	1			2	2	1	1
Sulfurous anhydride (dry)	1	1	1	1	2	x			1	1			1	1	1	1
Tartaric acid	1		1		1		1	2	1	1			1	1	1	1
Tetrahydrofuran	x	x	x	x	x	x	x	x	x	x	1	2	x	x	1	1
Tetraline	x	x	x	x			1	x	2	x	1	2			1	1
Thiosulphate sodium	1	1	1	1	2		1	x	1	1			1	1	1	1
Tin chloride	1	1	1	1	1	2	x	x	1	1			x	x	1	1
Toluene	x	x	x	x	x	x	2	x	1	2	1	2	2	2	1	1
Trichloroethane	x	x	x	x	x	x	x	x			2	x	x	x	1	1
Trichloroethylene	x	x	x	x	x	x	x	x	x	x	2	x	x	x	1	1
Tricresyl pholphate					2		2	x	1	1						
Trithanol amine	1	1	1	1			x	x			1				1	1
Tupentine oil	x	x	1	2	2	x	2	x	2	x	1	1	x	x	1	1
Urea 30-50%	1		1		1	x	1		1	1	2		1		1	1
Vinyl Acetate	x	x	x	x			1	2	1	1					1	1
Vinyl chloride	x	x	x	x	x	x			1	1			x	x	1	1
White spirit	x	x	x	x	1	x	x	x	x	x					1	1
Xylene	x	x	x	x	x	x	2	x	1	x	1	2	2	2	1	1
Zinc chloride	1	1	1	1	1	2	1	2	1	1	1		1	1	1	1
Zinc sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1



Ludo,
Electrician: plays golf at the Ermitage Golf Club in Vendeuvre-sur-Barse (Aube).



Eric and Cédric,
SMED technicians:
the former is a keen cyclist, while the latter builds soapboxes to compete in races throughout Marne alongside his wife and children.





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174846	Windflex 1308 PU 80 - 10M	105	198267	Super Nobelair 16 x 23 - 50M	27
174847	Windflex 1308 PU 90 - 10M	105	198296	Super Nobelair 19 x 26,5 - 25M	27
174848	Windflex 1308 PU 102 - 10M	105	198309	Super Nobelair 19 x 26,5 - 50M	27
174849	Windflex 1308 PU 110 - 10M	105	198312	Super Nobelair 19 x 26,5 - 100M	27
174850	Windflex 1308 PU 120 - 10M	105	198338	Super Nobelair 25 x 33,5 - 25M	27
174851	Windflex 1308 PU 140 - 10M	105	198341	Super Nobelair 25 x 33,5 - 50M	27
174852	Windflex 1308 PU 130 - 10M	105	198438	Tress-Nobel bleu 8 x 14,5 - 25M	42
174853	Windflex 1308 PU 160 - 10M	105	198467	Tress-Nobel bleu 9 x 16 - 50M	42
174884	Windflex 400 600 - 5M	98	198496	Tress-Nobel bleu 10 x 17 - 25M	42
176009	Spirabel MDSO 80 - 50M	88	198509	Tress-Nobel bleu 10 x 17 - 50M	42
176010	Spirabel MDSO 25 - 30M	88	198512	Tress-Nobel bleu 10 x 17 - 100M	42
176012	Spirabel MDSO 32 - 30M	88	198531	Tress-Nobel bleu 12 x 20 - 25M	42
176014	Spirabel MDSO 38 - 30M	88	198544	Tress-Nobel bleu 12 x 20 - 50M	42
176017	Spirabel MDSO 51 - 10M	88	198557	Tress-Nobel bleu 12 x 20 - 100M	42
176018	Spirabel MDSO 51 - 30M	88	198599	Tress-Nobel bleu 16 x 24 - 25M	42
176020	Spirabel MDSO 63 - 30M	88	198602	Tress-Nobel bleu 16 x 24 - 50M	42
176023	Spirabel MDSO 76 - 30M	88	198631	Tress-Nobel bleu 19 x 28 - 25M	42
176026	Spirabel MDSO 102 - 30M	88	198644	Tress-Nobel bleu 19 x 28 - 50M	42
176202	Spirabel MDSF AL 151 - 20M	84	198660	Tress-Nobel bleu 8 x 14,5 - 50M	42
189782	Vitryl 3 x 5 - 25M	60	198673	Tress-Nobel bleu 8 x 14,5 - 100M	42
189795	Vitryl 4 x 6 - 25M	60	198699	Tress-Nobel bleu 6,3 x 12,5 - 50M	42
189801	Vitryl 5 x 8 - 25M	60	198815	Tress-Nobel noir 25 x 35 - 50M	42
189814	Vitryl 6 x 9 - 25M	60	Z 71023	Support mural Minireel	11
189830	Vitryl 8 x 12 - 25M	60	Z 71028	Support mural Autoreel et Waterreel Pro	10
189843	Vitryl 10 x 14 - 25M	60			
189856	Vitryl 12 x 17 - 25M	60			



Laurent,
Planning Technician:
practises freediving and diving
at the Vitry-le-François club.



Jean-Paul,
Laboratory Technician:
trains at the Saint-Dizier pétanque club and competes on a regional level.

Astrid,
Assistant to the Production Manager:
enjoys hiking and trail running in the mountains.





General conditions of sales

DEFINITIONS

- "**Client**" means any individual or company who/which orders Products from the Supplier in the course of its professional activity.

- "**Contract**" means any the Order and these STC.

- "**Order**" means any order resulting in one or more deliveries, issued by the Client.

- "**Party**" means the Client and/or the Supplier individually.

- "**Parties**" means the Supplier and the Client collectively.

- "**Products**" means any product, material and / or equipment, and / or component and / or spare parts and / or accessories manufactured and / or marketed by the Supplier.

- "**Supplier**" means TRICOFLEX Company.

1 – SCOPE

These Sales Terms and Conditions (STC) constitute the sole basis of the commercial negotiation with the Client. These STC include these General Terms and Conditions of Sale and the Annexes which are expressly approved and accepted by the Client, who declares and recognizes to have a perfect knowledge of. Any Order of Products implies the unconditional acceptance by the Client and its full and entire adhesion to these STC. The acceptance of the Supplier's STC shall automatically imply the non-application of any other General Conditions of Purchase or Sale derogating therefrom, except with the express written agreement of the Parties. These STC cancel and replace any other prior documents with the Client.

The fact that the Supplier does not avail itself at a given moment of any of the clauses hereof may not constitute a waiver of these clauses. The Supplier may modify the present STC at any time by giving one (1) month's notice.

2 – ORDERS

2.1 – ORDERS ACCEPTANCE

Any Order becomes definitive and only binds the Supplier after acceptance and written confirmation sent to the Client by the Supplier.

Any Order placed by telephone must be confirmed by the Client to the Supplier in writing.

2.3 – CANCELLATION AND REFUSAL OF AN ORDER

Any cancellation of an Order requested by the Client can only be taken into account if it has been received in writing by the Supplier.

In the event of an Order's cancellation or suspension by the Client after acceptance of this one by the Supplier, the Supplier shall invoice the Client for an indemnity equal to 15% of the amount of the Order

In the event that a Client places an Order with the Supplier, without having paid for the previous Order (s), the Supplier may refuse to honor the Order and to deliver the concerned Products. The Client will not be able to claim any compensation for any reason whatsoever.

3 – DELIVERY

3.1 - TERMS OF DELIVERY

Deliveries are made within the time specified in the Order's acceptance.

Delivery times are indicative and depend on the Supplier's supply and transport possibilities.

The Supplier endeavors to respect the delivery time indicated on the acceptance of the Order.

Exceedances of delivery times may in no case give rise to damages, cancellation of Orders in progress, or non-payment of invoices due.

3.2 - RECEPTION

It is the Client's responsibility to check the Products upon receipt.

In the event of damage or partial loss, the Client must make immediately all the necessary reservations and confirm them, in accordance with Article L. 133-3 of the Commercial Code, within three (3) days of the receipt of the Products, including public holidays, by extrajudicial act or registered letter with acknowledgment of receipt to the carrier.

A copy shall be sent to the Supplier at the same time.

It is the Client's responsibility to provide all justifications to prove the reality of the defects found.

The Supplier should have the opportunity to proceed to the detection of these defects in order to be able to remedy them, if they are its fault.

Reception without any reservation or not meeting the above conditions covers any apparent defects and / or any loss. The Products will be deemed accepted by the Client.

3.3 – RISK OF LOSS

The Products are sold and approved in the Supplier's factories, regardless of the shipping method, carriage due, advanced or free shipping.

The Products are travelling at the risk and peril of the Client. The Client undertakes to insure, at its own expenses, the Products against the risks of loss and deterioration by taking an insurance for the benefit of the Supplier.

It is the Client's responsibility to:

- check, at the time of delivery by the carrier, that the Products have not suffered of any damage during transport,

- safeguard its rights vis-à-vis the carrier in accordance with the legal provisions in force and within the required time and,

- exercise, if necessary, directly his recourse against the carrier.

The Client has sole quality to make reservations with the carrier in the event of damage, loss or delay in delivery, in the forms and time prescribed by the Code of Commerce, in accordance with Article 3.2 hereof.

3.4 - RETURN COSTS

After checking, in the event of discovery of a defect, non-compliant Product or loss, by the Supplier, the Client may only request the replacement of non-compliant Products and / or the supplement to fill the gaps at the expense of the Supplier.

The Client will not be able to claim any compensation or ask for the sale or the Agreement's resolution. Only

the carrier chosen and / or accepted by the Supplier is authorized to return the concerned Products. In all other cases, any return of Products must be subject to a written agreement by the Supplier. The costs and risks of return will be borne by the Client. Any return made without the express consent of the Supplier will not give rise to any refund or credit.

3.5 - SUSPENSION OF DELIVERIES

In the event of non-payment in full of an invoice due, the Supplier may suspend any delivery in progress and / or future.

4 – PRICE – TERMS OF PAYMENT

4.1 - PRICE

Rates may be revised at any time and will be communicated one (1) month in advance to the Client.

The prices, expressed before tax and in euro or in foreign currency, are those in force at the time of the Order.

4.2 - TERMS OF PAYMENT

The invoice is issued at the time of shipment of the Products.

All invoices are payable to the accounting department of Vitry-le-François. The payment terms are those shown on the Order Acknowledgment, by default the invoices are payable 45 days end of the month.

No discount for early payment will be granted.

Any late payment will entail by right and without any formal notice being necessary delay penalties equal to the interest rate applied by the European Central Bank (ECB) to its most recent refinancing operation plus 10 percentage points as well as the payment of a lump sum compensation for recovery costs of 40 euros per invoice. When the recovery costs incurred exceed the amount of this lump sum indemnity, the Supplier reserves the right to request additional compensation, upon justification

In addition to the aforementioned late payment interest and lump sum payment, in the event of late payment, the Supplier reserves the right to require the Client to pay compensation equal to 15% of the total amount outstanding, as damages. This clause will apply without the Supplier having to justify the importance and nature of its damage.

In the event of late payment, the Supplier reserves the right to suspend all deliveries in progress and / or to refuse to honor future Orders without the Client being able to claim any compensation.

5 – RETENTION OF TITLE

The transfer of ownership of the Products will only be made after payment of the full price by the Client, in principal and accessories.

The Supplier may exercise the rights it holds under this clause for all of its Products held by the Client for any of its claims.

The Client must ensure the conservation of the Products delivered during the retention period.

The Client agrees to:

- insure, at its own expenses, the replacement of the delivered and unpaid and destroyed Product or to pay the price immediately;

General conditions of sales

- show separately in its accounting records, the nature and value of the Product which has been the subject of a reservation of title clause;

- not to pledge the delivered and unpaid Products, nor to transfer the property as guarantee;

- inform the Supplier immediately of the seizure, requisition or confiscation of the delivered and unpaid Product and of the sale, transfer or pledge of its business to a third party;

- immediately notify the Supplier in the event of resale of the Products, to enable the Supplier to exercise his right of claim on the price towards the End User.

In the event of total or partial non-payment of the price at the due date for any reason whatsoever, the Supplier may demand, by right and without formality, the return of the Product, at the expense and risk of the Client.

6 – QUANTITIES

The Supplier reserves a margin of plus or minus 10% on the quantity ordered, except for standard articles. Prices are established for continuous manufacture of the quantity indicated by the proposal. Claims for quantities delivered may only be considered if presented to the Supplier within two (2) business days after receipt of the shipment.

7 – WARRANTY

The Supplier's liability is strictly limited to the replacement, pure and simple and number for number, of the Products that the Supplier has recognized as non-compliant and which have been returned free of charge to the Supplier's factories in their original condition, within fifteen (15) days from the arrival of the Products at the Client's premises, without the Supplier having to bear any other damages whatsoever.

According to custom, it is the Client's responsibility to check the compatibility of the articles (permeability, solubility, organoleptic characteristics, etc.) with regard to food products, with which they are called upon to come into contact and to verify the good preservation of these ones.

Any defects and deteriorations resulting from abnormal storage and / or storage conditions at the Client's premises will not be eligible for the warranty due by the Supplier.

No liability of the Supplier can be incurred for any damage suffered by the Client, in case the Products sold are stored, by the Client and / or its subcontractors or service providers, under abnormal conditions or incompatible with their nature and Supplier's instructions.

The Supplier does not cover damage and wear resulting from special adaptation or mounting, abnormal or not, of its Products except if it has been carried out under its supervision.

In any case, the Supplier's warranty is limited to the replacement of the Products found to be defective for a reason for which the Supplier would be expressly and adversely responsible.

8 – FORCE MAJEURE

There is Force majeure where an event beyond the control of the debtor, which could not be reasonably have been foreseen at the time of the conclusion of the contract and whose effects could not be avoided by appropriate measures, and which prevents performance of his obligation by the debtor.

Are notably assimilated to cases of force majeure or fortuitous discharging the Supplier of its obligation: the strikes of all or part of the staff of the Supplier or its habitual carriers, the fire, the flood, the war, thus that any other cause of supply breakdown that is not attributable to the Supplier.

In such circumstances, the Supplier will notify the Client in writing within seventy-two (72) hours of the date of occurrence of the events.

If the impediment is temporary performance of the obligation is suspended by right and without compensation. If the event lasts beyond thirty (30) calendar's day period from its manifestation, the present Agreement may be automatically terminated by the most diligent Party, without either Party being eligible for damages.

9 – RETURN OF PRODUCTS

The complaints concerning the delivered Products will be receivable by the Supplier only if they are presented by registered letter with acknowledgment of receipt within a period of fifteen (15) days from the arrival of the Products at the Client.

In the event of dispute over Products delivered by the Supplier, it is agreed that the Supplier will have ten (10) days after the receipt of the Client's complaint to proceed, eventually on the spot, to the necessary findings and examinations. No return of Product used or processed in any way whatsoever, will be accepted by the Supplier. When the Supplier accepts returns of Products, it may only consent to a Credit if such Products have reached the Supplier in good condition, without having been used and after verification and acceptance by the Supplier in its stores. The Supplier reserves the right to apply a minimum discount for administrative costs, excluding any costs of control and repackaging.

10 – RESPONSIBILITY

The Supplier shall under no circumstances be held liable, for any reason whatsoever, for any direct or indirect damage resulting from the defect or non-conformity of a Supplier's Product.

11 – CONFIDENTIALITY

The Parties undertake not to disclose to anyone any information provided by the other Party, directly or indirectly in writing or orally, including any document, prototype, technical specification or plan, know-how, any material, formula ...

This confidentiality obligation must be respected by each Party, their employees and their potential subcontractors for the duration of the business relationship and the two (2) years following the end of the relationship. The obligation of confidentiality does not apply to information that is or will become public domain, that is already known before placing the Order, that is disclosed or used by either Party with the prior written consent of the other Party, that is lawfully received from

a third party, that has to be disclosed to a judicial or administrative authority.

12 – ANTI-CORRUPTION

In carrying-out the supply, the Supplier hereby undertakes to strictly comply with applicable laws prohibiting the bribery of public officials and private persons, influence peddling, money laundering. The Supplier undertakes to put in place and implement all necessary measures to prevent corruption. The Client accepts to comply with all applicable anticorruption laws. The Client shall not especially: (a) use any money or other things of value paid by the Client for purposes that violate Anti-corruption Laws, and (b) directly or indirectly, offer, promise, give, solicit or accept monies or other things of value to or from a public agent, government-owned or government-controlled commercial entities, a political party or any other person, individual or entity, with the objective to or retain business or secure any improper commercial or financial advantage or to influence any act or decision.

13 – DATA PROTECTION

For the sole purpose of the agreement, the Supplier can collect and proceed the personal data of the Client. As such, the Supplier undertakes to ensure that the processing is carried out in accordance with the law.

The Supplier shall not exploit and use the personal data for its own or for the account of a third party, unless instructed otherwise by the Client. The Supplier shall keep the collected data throughout the duration of the contract and for five (5) years after its termination. At any time, the Client shall have the right to access, rectify, delete, oppose, data portability, restrict processing and define the personal data proceeding post mortem by e-mail at the following address: marketing@tricoflex.com

The Client may also lodge a complaint with the «Commission nationale de l'informatique et des libertés»: 3 Place de Fontenoy, 75007 Paris (www.cnil.fr)

14 – DISPUTES

Any dispute relating to the application and / or interpretation of the prices, the Supplier's Terms and Conditions, the commercial cooperation agreements to which the Supplier is party, will no longer be admissible after the establishment of the balance of the conditions of the concerned year and, failing that, beyond a period of 12 months, following the end of the year in which these documents were in force.

15 – GOVERNING LAW AND JURISDICTION

These STC and any dispute or claim arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the laws of France.

Any dispute arising from the interpretation or performance of these STC will be, in case no settlement can be reached through consultation of the exclusive competence of the Commercial Court of Paris (France).

16 – APPENDICES

These APPENDICES are an integral part of these Terms and Conditions:

APPENDIX 1- Unit Price Schedule (or Price List)

LEGEND



Inner diameter (mm)



Maximum working pressure (WP) at 23°C (bar)



Outer diameter (mm)



Burst pressure (BP) at 23°C (bar)



Wall thickness (mm)



Maximum vacuum at 23°C (mbar)



Spiral thickness (mm)



Bending radius (mm)



Weight (g/m)



Bending diameter (mm)



Food quality. Complies with (EU)10/2011



Resistance to traction (daN)



Water flow rate (L/mn)



Maximum work temperature (°C)



Anti-static



Phthalates < 0,1%



Can be Earthed



Knitting system Anti-torsion hose

"A LA CARTE" HOSES

We manufacture customize hoses. Follow the 4 stages below and use the form printed on the other side of this page to place your order, or download it online at www.tricoflex.com.

For more information, please contact the sales manager of your sector.

1 Specify the hose type depending on intended use.

Transported fluid	Adapted hoses
Water	Tricocclair® AL, TCF, Super Nobelair® Soft, Super Nobelair®, Technobel® PU, Tress-Nobel® 40, Technobel®
Compressed air	Tricocclair® AL, TCF, Super Nobelair® Soft, Super Nobelair®, Tress-Nobel® 40, Technobel®
Oils	Technobel® PU, Technobel®
Food	Tricocclair® AL, TCF

Hose	Page	Hose	Page
Tricocclair® AL	16	Technobel® PU	47
TCF	18	Tress-Nobel® 40	42
Super Nobelair® Soft	26	Technobel®	48
Super Nobelair®	27		

2 Set the size that suits you in the technical data table for the selected hose.

Set the size that suits you in the technical data table for the selected hose. The table below shows the minimum order quantities depending on the chosen internal diameter.

Diamètre intérieur (mm)	4 & 5	6,3	6	7	8 & 9	10	12,7	12 & 13	15 & 16	19	20	25
Minimum de commande (m)	7 500	7 000	5 500	5 000	4 500	4 000	3 500	2 500	2 000	1 700	1 500	1 000

3 Color

Choose from the following colors for your hose :

black	dark grey	light grey	white	blue	green	red	beige	orange	yellow
-------	-----------	------------	-------	------	-------	-----	-------	--------	--------

Translucent hoses can be tinted blue, red, or green while retaining their transparency.

Non-contractual colors



4 Marking. Specify the information you would like us to print on your hose. (100 characters maximum, including spaces and pictograms).









Fill out the purchase order on the other side of this page (or print it from the website). For more information, please contact our sales manager responsible of your geographical area.

How to choose the right hose?



1

Select the type of hose according to its overall function:

Transfer of pressurised fluids			
Transfer of pressureless fluids			
High capacity suction/discharge			
Suction/discharge of air, gas, dust and chips			



2

Refine according to the fluid being transported

Fluids	Applications
Air	multipurpose, compressed air, pneumatic
Water	multipurpose, water, fire-fighting hoses, special duty
Chemical products	hydrocarbons, chemical products, agricultural spraying, special duty (spiral hoses)
Gaz	gas & welding
Painting	paint
Fumes, dust, chips & granules	ductings in PVC & PU

3

Are there any regulatory constraints?

Food grade	 (see page 109)	(EU) N° 10/2011 simulants A, B, C, D1, D2	multipurpose, food products, food cleaning, special duty (spiral hoses), ducting in PU
		KTW «A»	food products
Breathable		EN 14593 / EN 14594	compressed air
Fire resistant		UL 94 V2	ducting in PU
Gas		ISO 3821 / EN 559	welding
		EN ISO 5359 / EN ISO 8031	medical gas
Fire-fighting equipment		EN 1947 / EN694	fire-fighting hoses
Antistatic		EN ISO 8031 <small>(Atex)</small>	compressed air, spiral hoses, ducting in PU

4

Choose the hose according to the temperature of the fluid:

See the hose description page. The temperature range is shown at top left.

5

Choose the hose according to its size (diameter and length)

See the «available ø range» column  and  columns on the hose technical description page.

TRICOFLEX

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S.A.S.U. au Capital de 1 909 416 € - R.C.S. Châlons-en-Champagne 380 333 427 - SIREN 380 333 427 - FR 60 380 333 427 - APE 2221 Z

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At Tricoflex we love sport!

To celebrate the organisation of the 2024 Olympic Games in France, Tricoflex shares its commitment to sports.

Throughout our catalogue, we showcase our colleagues, who go above and beyond every day to ensure the quality of Tricoflex products and provide you with optimal service.



Céline, Séverine and Tatiana,
Our sales administrators: enjoy "relaxing" walks





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SIREN 380 333 427 - FR 60 380 333 427 - APE 2221 Z

The sports photos in this catalogue were taken by Sébastien CHAUCHOT - Quelques Déclics in Vitry-le-François (51)