

PTFEflex

T6420 & T6430 series

Convoluted PTFE Hose with Stainless Steel Braid (Virgin/Antistatic)

PTFE FLEX



Key features

- A wide operating temperature range (-70°C to +260°C)
- Inert to virtually all chemicals
- Very resistant to weathering/ageing unaffected by UV light, resistant to oxidation, surface fouling and discoloration.
- Non-flammable
- Lightweight
- Superior flex fatigue life
- Low permeability
- Lowest coefficient of friction of any known solid material
- Unlimited shelf life
- Solvent resistant

Temperature range

-70°C to +260°C

Available sizes	Colour
1/4" - 6"	Translucent PTFE with Stainless Steel Overbraid

Note:

*This hose is available in both Virgin & Antistatic PTFE making it suitable for ATEX applications.

Overview

A medium wall convoluted virgin/antistatic PTFE hose manufactured in accordance to FDA standards and suitable for the requirements of food, beverage, petrochemical, chemical, medical and pharmaceutical applications. Constructed from a helically convoluted inner tube and an outer cover of AISI304 high tensile stainless steel braid which helps to stop elongational growth and increases working pressures.

Applications

Convoluted PTFE hoses are designed to meet the stringent temperature, pressure and vacuum service requirements found in food, pharmaceutical, medical, beverage and dairy product application. Our PTFE hoses are very versatile and highly recommended for critical applications in many other industries including; Food/dairy handling and production, fluids associated with high temperatures, petrochemical & specialist chemical transferee, bottle filling, de-ionised water transfer, beverage service, handling and production, conveyance of cosmetic solutions, fluids associated with pharmaceutical and bio-medical transfer as well as production.

Options

- Colour coded labelling system
- External cover colour is also available in red, yellow and white
- A range of end connections all manufactured from 316L stainless steel including; Triclover, DINN, RJT, SMS, BSPT
- Can be electropolished to <0.625µm Ra or <0.4µm Ra
- Full 3:1.B material batch traceability

Standards, Accreditations & Registered compliances

Virgin	Antistatic
• BS EN ISO 9001:2008	• BS EN ISO 9001:2008
• FDA 21 CFR 177.1550	• FDA 21 CFR 178.3287
• 3A Sanitary Standards	• 3A Sanitary Standards
• SAE J1737	• SAE J1737
• EN10204	• EN10204
• EN45014	• EN45014
	• ATEX Directive 94/9/EC

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T6420/T6430 - Convoluted PTFE Hose (Virgin & Antistatic)

Size	 (mm)	 (mm)	 (mm)	 (mm)	 (bar)	 (bar)	 (g/m)	Product Code (Virgin)	Product Code (Antistatic)
1/4"	7.00	14	0.76	25	35	170	80	T6420-06	T6430-06
3/8"	9.65	19	0.76	25	35	170	123	T6420-10	T6430-10
1/2"	13.08	21	0.89	50	50	250	140	T6420-12	T6430-12
5/8"	16.00	25	0.89	65	35	170	160	T6420-16	T6430-16
3/4"	19.00	30	1	55	60	290	390	T6420-20	T6430-20
1"	25.40	38	1.2	85	40	210	540	T6420-25	T6430-25
1 1/4"	31.00	44	1.2	100	45	210	680	T6420-32	T6430-32
1 1/2"	35.50	48	1.6	120	40	175	1110	T6420-40	T6430-40
1 3/4"	44.00	59	1.6	135	25	135	1650	T6420-45	T6430-45
2"	47.50	63	1.6	165	25	135	1710	T6420-50	T6430-50
2 1/2"	60.25	80	1.6	230	14	60	2140	T6420-65	T6430-65
3"	74.00	96	1.5	260	12	65	3310	T6420-80	T6430-80
4"	100.00	128	2.5	300	10	40	4050	T6420-100	T6430-100
6"	150.00	189	2.5	520	6	24	5550	T6420-150	T6430-150

*Safety factor of 4:1 ratio burst pressure to working pressure.

PTFE Mechanical Properties	
Density	2200 kg/m ³
Melting Point	600 K
Thermal Expansion	112-125 · 10 ⁻⁶ K ⁻¹
Thermal Diffusivity	0.124 mm ² /s
Young's Modulus	0.5 GPa
Yield Strength	23 MPa
Bulk Resistivity	1016 Ω·m
Coefficient of Friction	0.05-0.10
Dielectric Constant	ε=2.1,tan(δ)<5(-4)
Dielectric Constant (60Hz)	ε=2.1,tan(δ)<2(-4)
Dielectric Strength (1MHz)	60 MV/m

Other PTFE Products

- T6100 - Smoothbore Virgin PTFE Hose with Stainless Steel Braid
- T6110 - Smoothbore Antistatic PTFE Hose with Stainless Steel Braid
- T6421 - Convoluted Virgin Vacuum Wired PTFE Hose with Stainless Steel Braid
- T6431 - Convoluted Antistatic Vacuum Wired PTFE Hose with Stainless Steel Braid

Related Products

- Brewflex Hose range
- Silicone Hose & Tube
- Hygienic Fittings

Disclaimer

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