

TS/TB Series

Smooth Chemfluor® PTFE Fluoropolymer Smooth Inner Tube 304 Stainless Steel High Tensile Strength Braid

applications	common media	industry approvals & compliances
<ul style="list-style-type: none"> Sanitary transfer Steam transfer core Bottle filling Gas analysis Hydraulic lines Extrusion presses Molding/Adhesive conveying 	<ul style="list-style-type: none"> Chemicals Steam Solvents Inks and dyes Paint Injectable materials Plastisols 	<ul style="list-style-type: none"> FDA approved per 21CFR177.1550 (TS only) US Pharmacopeia Class VI

features & benefits

- Greater wall thickness of Chemfluor® PTFE tube**
 - Up to 33% thicker than most competing products (tube wall .040 minimum)
 - Superior kink resistance
 - Improved vacuum ratings
 - Better damage resistance
- Neutral to taste, color and odor
- Non-stick, non-contaminating
- Cleans easily — steam, detergent or caustic
- Can be autoclaved
- Full ID sizes
 - Greater flow rate per given size
 - Less pressure drop through fitting area than hoses with tube size ID

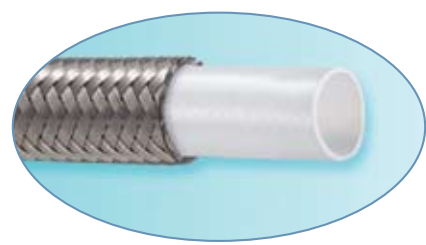
details

TS Series construction

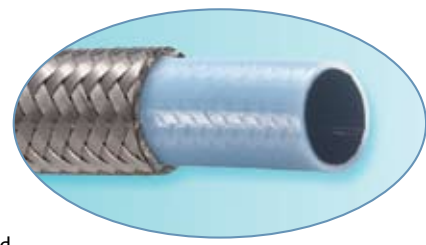
- Inner Tube:** White Chemfluor® PTFE
- Reinforcement:**
 - 304 stainless steel braid
 - 1-1/2" ID size double-braided for added kink resistance, higher pressure rating; working pressure based on minimum 4:1 safety factor; burst to suggested maximum working pressure

TB Series construction

- Inner Tube:** Black Chemfluor® PTFE
- Electrostatic dissipating conductive version of TS Series
- Reinforcement:**
 - 304 stainless steel braided
 - 1-1/2" ID size double-braid for added flexibility, higher pressure rating; working pressure based on minimum 4:1 safety factor; burst to suggested maximum working pressure



TS



TB

engineering specifications

average length		minimum overall length of hose assemblies with anti-kink casing	
1/8"	50'	1/4" size – 18" OAL	
1/4"	125'	3/8" and 1/2" sizes – 24" OAL	
3/8"	75'		
1/2"	125'		
3/4"	40'		
1"	30'		
1-1/2"	30'		

temperature rating

- 100°F to +450°F continuous; 500°F intermittent
- 73°C to +232°C continuous; 260°C intermittent

fittings

- PermaSeal® crimp-style
 - Over 40 styles in a wide range of materials
 - Standard: 316L stainless steel (wetted surfaces)

TS/TB/TD/TDB Series hose specifications

Part Number	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
	in.	mm	in.	mm	PSI	MPa	PSI	MPa	in.	mm	in.	mm	lb./ft.	kg/m
2TS	1/8	3.2	1/4	6.1	3,000	20.69	15,000	103.43	1.50	38.10	29.9	760	0.05	0.07
4TS/TB	1/4	6.4	3/8	9.7	3,000	20.69	13,500	93.08	2.50	63.50	29.9	760	0.08	0.12
6TS/TB	3/8	9.5	1/2	13.2	2,500	17.24	10,000	68.95	3.50	88.90	29.9	760	0.12	0.18
8TS/TB	1/2	12.4	5/8	16.8	2,000	13.79	8,500	58.61	4.00	101.60	29.9	760	0.15	0.22
12TS/TB	3/4	19.1	7/8	22.4	1,200	8.27	4,800	33.10	7.50	190.50	29.9	760	0.22	0.33
16TS/TB	1	25.4	1-1/8	29.5	800	5.51	3,200	22.06	12.00	304.60	20.0	508	0.31	0.46
24TD/TDB	1-1/2	38.1	1-3/4	44.2	900	6.21	4,000	27.58	15.00	381.00	15.0	381	0.44	0.66

⚠ Important:

Burst pressure ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient.

Working Pressure is given @ 70°F; Decrease working pressure 1% for every 2°F above 350°F.

Vacuum Rating is given @ 70°F; Decrease vacuum rating 1% for every 2°F above 350°F. 1-1/2" size (TD, TDB) vacuum rating decreases when installed less than 2X min. bend radius.

Extended Service Life Tip: All 3/4", 1", and 1-1/2" TS/TB/TD/TDB assemblies 36" and longer are strongly recommended to use full-length anti-kink casing (see Hose Cover Options section, pages 79–80) to help prevent potential kinking and/or liner vacuum collapse.