

TS/TB/TD/TDB Series



TS Series
White PTFE Liner

TB Series
Conductive PTFE Liner

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

Wall Thickness

Flexible Components **TS** and **TB** Series hoses are designed with a thicker Chemfluor® PTFE tube than most manufacturers— up to 33%. This characteristic enables smooth tube hoses to have superior kink resistance, improved vacuum ratings and better damage resistance.

Full ID Sizes

Not tube size. Greater flow rate per given size. Less pressure drop through the fitting area than conventional hoses with tube size ID.

Inner Tube

Pure Chemfluor® PTFE white or black static dissipating conductive. Neutral to taste, color or odor. Non-stick, non-contaminating tube cleans easily. Steam, detergent or caustic cleanable FDA and Pharmaceutical approved.

Fittings

Over 36 Fitting Styles available in a wide range of materials 316L SS standard.

Approvals

TS/TB FDA approved per 21CFR177.1550. United States Pharmacopeia Class VI.

Temperature Rating

-100°F (-73°C) to 500°F (+260°C)

1-1/2" Double-Braid Reinforcement

The 1-1/2" ID sizes of TS and TB hoses are double-braided for added flexibility, added kink resistance, and higher pressure rating. Double-braided TS is specified **TD**, Conductive TB double-braided is specified **TDB**. Working pressure based on minimum 4:1 safety factor: burst to suggested maximum working pressure.

TSS Series



Smooth Chemfluor® PTFE Fluoropolymer Liner Silicone Covered 304 Stainless Steel High Tensile Strength Braid

Description

- Pure extruded platinum cured silicone cover over Stainless Steel braided smooth Chemfluor® White PTFE tube. Permits easy cleaning, reduces braid fraying and helps insulate exterior from "burn" potential. Pharmaceutical, food and beverage, and chemical applications.
- Temperature rated to TS maximum temperature - 80°F (-62°C) to +500°F (+260°C)
- Prevents operator injury cause by "frayed" SS braid.
- Stock sizes 1/4" to 1" ID.
- Platinum cured pure silicone cover produces an ultra smooth finish that assures no particle entrapment between the SS braid strands.

Fittings

- Over 36 Fitting Styles available in a wide range of materials 316L SS standard.
- Single crimp collar locks in hose barb and seals off silicone cover; eliminates bulky secondary ring.
- The extruded cover is "locked" onto the Stainless Steel braid for a tight fit that will not move when handled.

TS/TB/TD/TDB Hose Specifications

Part Number	Hose Size ID (in.)	Size Nominal OD (in.)	Working Pressure (PSI)	Minimum Burst Pressure (PSI)	Minimum Bend Radius (in.)	Vacuum In./Hg.	Approx. Weight Per Ft. (lbs.)
-2TS	1/8	.240	3,000	15,000	1.5	29.9	.05
-4TS/TB	1/4	.380	3,000	13,500	2.5	29.9	.08
-6TS/TB	3/8	.520	2,500	10,000	3.5	29.9	.12
-8TS/TB	1/2	.660	2,000	8,500	4.0	29.9	.15
-12TS/TB	3/4	.880	1,200	4,800	7.5	29.9	.22
-16TS/TB	1	1.160	800	3,200	12.0	20.0	.31
-24TD/TDB	1-1/2	1.740	900	4,000	15.0	15.0	.44

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" size (TD, TDB) Vacuum rating decreases when installed less than 2 X min. bend radius.

Extended Service Life Tip:

Flexible Components strongly suggests that all 3/4", 1", and 1-1/2" TS/TB/TD/TDB assemblies, 36" & longer be ordered with the full-length anti-kink casing to help prevent potential kinking and/or liner vacuum collapse.

TSS Hose Specifications

Part Number	Hose Size ID (in.)	Size Nominal OD (in.)	Working Pressure (PSI)	Minimum Burst Pressure (PSI)	Minimum Bend Radius (in.)	Vacuum In./Hg.	Approx. Weight Per Ft. (lbs.)
-4TSS	1/4	.455	3,000	13,500	2.5	29.9	.12
-6TSS	3/8	.600	2,500	10,000	3.5	29.9	.18
-8TSS	1/2	.755	2,000	8,500	4.0	29.9	.25
-12TSS	3/4	.985	1,200	4,800	7.5	29.9	.30
-16TSS	1	1.245	800	3,200	12.0	20.0	.40

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" size (TSS) Vacuum rating decreases when installed less than 2 X min. bend radius.

Chemfluor® is a registered trademark of Saint-Gobain Performance Plastics.



High Purity Liquid Handling Products
for Pharmaceutical & Biotech Industries
(800) 726-4835 | www.sani-techwest.com