



NS-PTFE210SSB

Stainless Steel Braided Teflon (PTFE) Hose



Description

Braided Teflon (PTFE) hose is an extruded Teflon core with an outer stainless steel braid for strength. Teflon (PTFE) hose is flexible and strong, when combined with stainless steel, can perform under high pressure and continuous flexing and vibration conditions. With a wide range of chemical compatibility, teflon hose can handle an almost endless variety of fluids at extremes of pressure and temperature. Almost no substance can stick to teflon. This property ensures the purity of any product transferred via a teflon hose. It also allows for alternate use with different products. Typical applications include high pressure & high temperature for brake, clutch and power steering lines, off-road brake, transmission, clutch, gauge, nitrous oxide, hydraulic and air conditioning.

Features

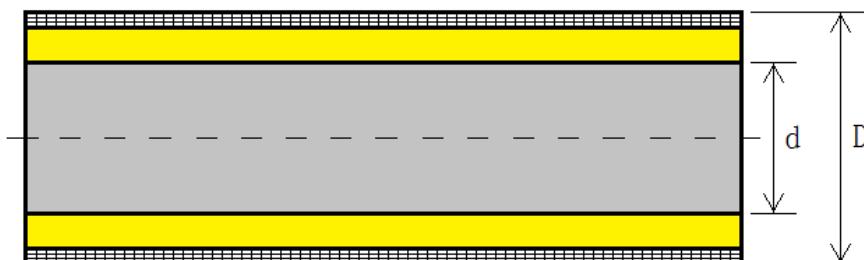
- High temperature resistant, operating temperature: $-50^{\circ}\text{C} \sim 210^{\circ}\text{C}$
- Corrosion resistant to strong acid, strong base, chemical reagent, oil etc
- Transient temperature resistant range: $-70^{\circ}\text{C} \sim +260^{\circ}\text{C}$



Technical Performance

Serial No.	Properties	Unit	Standard Data	Test Methods
Physical Performance	Density		2.16±0.03	ASTM D 792
	Refractive Index		1.35	ASTM D 542
	Moisture Absorption	%	< 0.01	ASTM D 570
Mechanical Performance	Tensile Strength	N/mm ²	25 ~ 30	ASTM D 638
	Elongation	%	25 ~ 40	ASTM D 1708
	Tensile Modulus	N/mm ²	750	
	Flexural Modulus	N/mm ²	44 ~ 52	
	Shore Hardness		D50 ~ D65	ASTM D 2240
Heat Performance	Flame Spread Rate		-	
	Line Expansion Coefficient	10 ⁻⁵ /°C	10	ASTM D 635
	Thermal Conductivity	Cal/S/cm/°C	5 ~ 11.10 ⁻⁴	ASTM D 696
	Specific Heat Capacity	Cal/°C/g	0.25	ASTM C 177

Structure





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Dimensions

Size(inch)	Inner Diameter d(mm)	Outer Diameter D(mm)	Operating Pressure (kg/cm ²)	Burst pressure (kg/cm ²)	Weight (g/m)	Bend radius (mm±3mm)
3/16	3.20 ~ 3.35	5.85 ~ 6.30	285	832	89	50
1/4	4.64 ~ 5.17	7.29 ~ 8.48	256	625	104	76
5/16	5.96 ~ 6.83	8.22 ~ 9.46	232	552	122	81
3/8	7.55 ~ 8.39	10.31 ~ 11.71	194	540	155	131
1/2	9.91 ~ 10.67	12.73 ~ 14.18	162	450	185	182
5/8	12.54 ~ 13.37	15.72 ~ 16.73	139	425	220	211
3/4	15.19 ~ 16.59	18.57 ~ 20.18	101	385	252	252
1	21.39 ~ 23.05	24.59 ~ 27.03	93	240	406	421

Note: Non-standard dimensions and packages also available on your request