

SILICONE BRAIDED HOSE

Braid Reinforced Silicone Rubber Hoses are an essential part of any industry That relies on fluid transfer. They are used in a variety of applications, From food and beverage processing to automotive manufacturing. Made of silicone Rubber, these hoses are reinforced with a braid for added strength and durability. They can withstand high temperatures and pressures, making them ideal for use in Demanding environments. Braid reinforced silicone rubber hoses are available in a variety of sizes and configurations to meet the needs of any application.



Properties of silicone rubber compounds

Peroxide cure	Peroxide-cured silicone rubber can be used for many applications where a good cost-performance ratio is desired. It is available with a broad variety of properties and colours and suitable for direct contact with food (Recommendation XV BfR, CFR21 FDA177.2600) It is of limited suitability for medical and pharmaceutical applications.
platinum cure	Addition-cured silicone rubber is well known for its purity. Thus, it is recommended for hoses used in contact with food (Recommendation XV BfR, CFR21 FDA177.2600), drinking water (KTW, WRAS, W270) and in medical as well as pharmaceutical applications (EP3.1.9, USP Class VI).

SIZE RANGE :-

SIZE IN INCH	SIZE IN INCH	MAX.WORKING PRESSURE	MIN.BURST PRESSURE	MIN.BAND RADIUS
(ID)	ID X OD	PSI(BAR)	PSI(BAR)	IN MM
1/4"	6 x 13	180(12.4)	30	25
11/32"	9 x 16	180(12.4)	27	50
1/2"	12 x 20	175(12.1)	21	76
5/8"	16 x 24	125(8.6)	20	102
3/4"	19 X 27	105(7.2)	18	102
1"	25 X 35	75(5.2)	12	152
1.1/4"	32 X 42	43(3)	9	200
1.1/2	38 X 48	36(2.5)	8	260
2"	50 X 62	20(1.5)	6	350

APPLICATIONS :-

- Medical technology (e.g. dialysis machines)
- Plant construction (e.g. coolant pipes)
- Machine construction (e.g. suction and filling hoses)
- Industrial kitchen technology (e.g. hot water and steam cooking hoses)
- Food industry (e.g. transport lines conforming with food product requirements)
- Emergency supply systems (e.g. temperature-adjusted respiration hoses)
- Bio-technology (e.g. permeable fermentation pipes)
- Wastewater technology (e.g. gassing hoses)
- Aerospace engineering (e.g. temperature-resistant compressed air pipes)
- Communications engineering (e.g. protection hoses for cold light carriers)
- Dairy hoses(e.g Hoses in milDrug manufacturing Machines, biotechnology)

FEATURES : -

- Suitable for sterilization (e.g. with steam, ethylene oxide, radiation).
- Meet the hygiene requirements of FDA, Pharmacopoeia, BfR, EC directives
- Food grade hoses are available.
- Greater Flexibility
- Imparts no taste and odor
- Manufactured from high quality silicone rubber
- Colored outer layer available for coding
- High tear resistance, easy to install
- Resistant to UV, Ozone, Oxygen and steam
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Available in 25 or 50 foot length
- FDA criteria
- High pressure ratings

Technical Data:-

Physical Properties	Test Method	Units	Typical Values
Specific Gravity	DIN EN ISO 1183-1 A	g/cm3	1.1
Hardness, Shore A	D2240	SHORE A	70±5
Tensile strength psi(Mpa)	D412	MPA	8.5
Elongation (%)	D412	%	280
Tear Resistance, Die B lbf./in. (KN/m)	D624	KN/M	18
Tensile Modulus @100%psi(Mpa)	-	-	-
Temperature Rating	-	°C	-40 TO 170
Compression set 22h@175°C	ASTM D395 method B	%	27