



TECHNICAL DATA SHEET

SK2RIM250-2 Silicone Pressure Tubing

► DESCRIPTION

The tube is produced from silicone rubber with coating and glass fiber. It can be used high temperature RTM processes for creation of vacuum channels and resin inlet channels.

This product is used in various manufacturing processes of parts made of composite materials.

► TECHNICAL DATA

Elastomer:	Silicone rubber SIL 701
Colour:	Inner tubing: transparent Coating: transparent (other colours available on request)
Fabric:	Glass fibre
Roll length:	25 metres, loosely bound

Elastomer properties

Hardness (DIN 53505)	70 [°Shore A]
Density (DIN 53749)	1.18
Tensile strength (DIN 53504 S2)	10.0 [N/mm ²]
Elongation at break (DIN 53504 S2)	500 [%]
Compression set (DIN 53517)	53.0
Tear resistance (ASTM D 624 Die B)	24.0 [N/mm ²]
Elect. volume resistivity at RT	1015 [Ohm x cm]
Breakdown voltage	20 [KV/mm]
Temperature resistance (continuous)	+200 [°C]
Temperature resistance (short-term)	+ 250 [°C]
Low temperature flexibility	-60 [°C]
UV resistance	very good

Burst pressure

Product	Dimensions [ID x WT]	Burst pressure (at 20°C)
SK2RIM250-2WH308025	3.00 x 2.50	> 50 [bar]
SK2RIM250-2WH409025	4.00 x 2.50	> 50 [bar]
SK2RIM250-2WH5011025	5.00 x 3.00	> 35 [bar]
SK2RIM250-2WH6012025	6.00 x 3.00	> 30 [bar]
SK2RIM250-2WH7013425	7.00 x 3.20	30 [bar]
SK2RIM250-2WH8014425	8.00 x 3.20	25 [bar]
SK2RIM250-2WH901625	9.00 x 3.50	25 [bar]
SK2RIM250-2WH10018025	10.00 x 4.00	25 [bar]
SK2RIM250-2WH12020025	12.00 x 4.00	24 [bar]
SK2RIM250-2WH13021025	13.00 x 4.00	23 [bar]



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SK2RIM250-2WH14023025	14.00 x 4.50	23 [bar]
SK2RIM250-2WH16026025	16.00 x 5.00	22 [bar]
SK2RIM250-2WH19030025	19.00 x 5.50	20 [bar]
SK2RIM250-2WH20031025	20.00 x 5.50	15 [bar]
SK2RIM250-2WH22034025	22.00 x 6.00	15 [bar]
SK2RIM250-2WH25037025	25.00 x 6.00	15 [bar]

(Burst pressure is a statistical, non-binding value which was determined at 20°C using water as a pressure medium.

Higher temperatures and the use of other media can reduce pressure resistance.)

► USE

Operating mode (guideline only)	Ratio of test pressure to operating pressure	Ratio of burst pressure to operating pressure
Water tubing, maximum operating pressure < 10 bar	1.5	3.0
Tubing for other fluids, solids dissolved in liquids or air and water tubing with an operating pressure > 10 bar	2.0	4.0
Tubing for compressed air and other gases	2.0	4.0
Tubing for liquid media which converts to a gaseous state when pressure reduces (i.e. during venting into the atmosphere).	2.5	5.0
Steam tubing	5.0	10.0

Table: Ratios of test and burst pressure to operating pressure

Source: DIN EN ISO 7751: 1997

Tolerances

All tubes are manufactured in compliance with DIN 7715.

Storage conditions: it is recommended to store at temperature from -20°C till + 30°C in the original packing.