

DATASHEET

DATASHEET		Date: 11-10-2019 Version: 3.0
CH No.	CH1370-19002 Sil-70	
Basic elastomer	Silicone VMQ	
Colour	Red	
Temperature range	Temperature range from -55°C to +200°C	
Approvals	FDA 21.CFR 177.2600 • EC 1935/2004 • EC 2023/2006 • ADI free • REACH • SVHC 7 RoHS • Phthalate free	

TYPICAL PROPERTIES			
Properties	Unit	Value	Testing methods
Hardness	IRHD	70 ±5	ASTM D 1415
Tensile strength	MPa	6.1	ASTM D 412
Ultimate elongation	%	261	ASTM D 412
Gravity	g/cm ³	1.38 ±0.03	ASTM D 297
Compression set 22 hours at 175°C	%	15	ASTM D 395 B
Low temp. resistance TR10	°C	-42	ASTM D 1329
Low temp. resistance *	°C	-55	ASTM D 2137

* Brittleness no cracks after 3 min

TYPICAL PROPERTIES							
Medium	Testing method	Time hour	Temp. °C	Hardness Points	Tensile strength %	Ultimate elongation %	Volume %
Air	ASTM D 573	70	225	+2	-15	-24	-
IRM oil 901	ASTM D 471	70	150	-6	+4	-10	+5
IRM oil 901	ASTM D 471	70	150	-16	-	-	+38

General:

Areas of application of this rubber are suggested by its outstanding temperature resistance (-55° C to +200° C). Although this must not be applied to hot water or steam. Although silicone rubber almost matches NBR in oil resistance, it does not match the latter's physical and mechanical properties.

Please Note:

The mentioned values are average values and result from a limited number of laboratory tests. These tests were performed on standard test specimens and may therefore vary significantly from the values that were determined by means of tests performed on finished parts. On the basis of his own tests, the purchaser must ensure that the product is suitable for the intended application purpose. Our recommendations are provided according to the best of our knowledge. However, they are not binding and exclude any form of liability for any kind of damage.