

# METAL DETECTABLE SILICONE

## technical data sheet



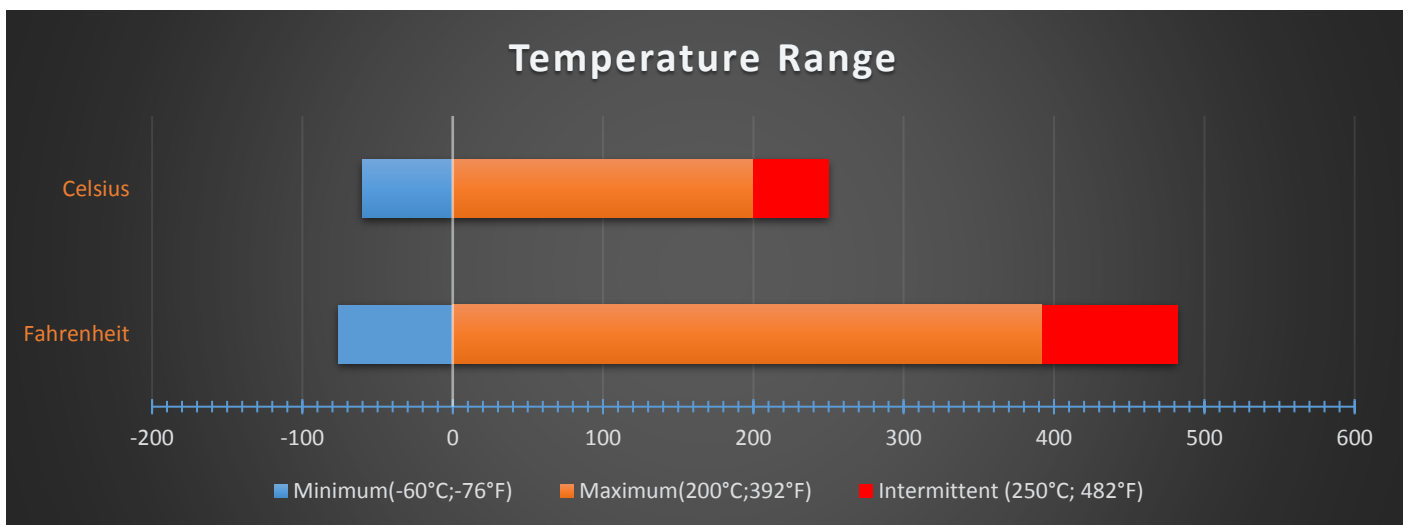
### MATERIAL

Metal Detectable Silicone

### AVAILABLE GRADES

60° Shore A, 1.2m wide in a full range of thicknesses in standard grade and extra power and extra strength available on request.

### TEMPERATURE



### GENERAL INFORMATION

This material has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 & Directive EU 1935/2004.

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests and Automotive Standard PART 571MVSS302.

### ENVIRONMENTAL RESISTANCE

Silicone rubber products have an excellent resistance to:

- ❖ Ozone
- ❖ Oxidation
- ❖ Ultraviolet light
- ❖ Corona discharge
- ❖ Cosmic radiation
- ❖ Ionising radiation
- ❖ Weathering in general

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice. Issue date 01.01.2019.

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### *AVAILABILITY FORMAT*

- ✓ Supplied in continuous roll lengths
- ✓ Widths of 1200mm (standard)
- ✓ Pressure sensitive adhesive backing
- ✓ Punched and water jet gaskets
- ✓ Fabricated seals and gaskets
- ✓ Slit strips

### *TYPICAL APPLICATIONS*

- ❖ Commercial Catering
- ❖ Food & Beverage

### *MECHANICAL PROPERTIES*

PROPERTY	UNITS	STANDARD	EXTRA POWER	EXTRA STRENGTH	TEST METHOD
		TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	
HARDNESS	Shore A	63	63	61	ASTM D2240 DIN ISO 7619-1
TENSILE STRENGTH	MPa (PSI)	8.0 (1160)	8.5 (1235)	7.5 (1090)	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
ELONGATION TO FAILURE	%	370	290	290	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
TEAR STRENGTH	N/mm (lb./in.)	21 (120)	22 (125)	21 (120)	ASTM D624 die B
COMPRESSION SET 24 HRS @ 150°C	%	11	14	13	BS 903 pt A6 type B DIN/ISO 815 type B
COMPRESSION SET 22 HRS @ 300°C	%	11	14	13	ASTM D395 method B type 2
MAGNETIC PULL	mm	7.3	8.3	11.3	SEWI 700

In-house capabilities for extensive industry specific testing available on request

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### *GENERAL CHARACTERISTICS*

TEST	RESULT	STANDARD
BRITTLE POINT	-80°C (-112 °F)	ASTM D746
LIMITING OXYGEN INDEX	24.0 %	BS 2782 Part 1
THERMAL CONDUCTIVITY	0.24 W.m <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
RADIATION RESISTANCE	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
DIELECTRIC STRENGTH	23 kV.mm <sup>-1</sup>	VDE 0303
DIELECTRIC CONSTANT	2.9	VDE 0303
DISSIPATION FACTOR	3x10 <sup>-4</sup>	VDE 0303
VOLUME RESISTIVITY	3x10 <sup>15</sup> Ω.cm	VDE 0303

### *ACCREDITATIONS*

- ❖ FDA compliant
- ❖ EU 1935/2004.
- ❖ FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)
- ❖ (a)(1)(v) horizontal flammability tests
- ❖ Automotive Standard PART 571MVSS302
- ❖ REACH compliant
- ❖ RoHS compliant

### *ADDITIONAL INFORMATION*

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