

Technical Data Sheet

Silicone Rubber Sponge

Metal Detectable



Material

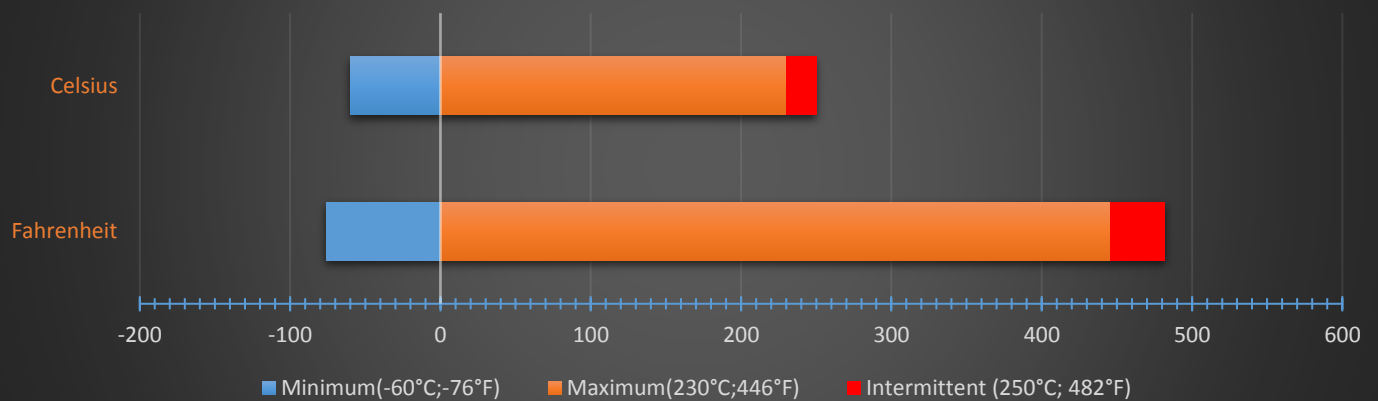
Metal Detectable Sponge

Available Grades

SIL18

Temperature

Temperature Range



General Information

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 test and Automotive Standard PART 571FMVSS302.

The sponge is closed cell with low water absorption and dust ingress protection up to IP65, subject to design.

Environmental Resistance

Silicone rubber products have an excellent resistance to:

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

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Availability Format

EXTRUSIONS

- ✓ Cord, section, strip, profiles
- ✓ Joined rings and gaskets
- ✓ Pressure sensitive adhesive backing

SHEETING

- ✓ Supplied in rolls or individual sheets
- ✓ Widths up to 1000mm
- ✓ Pressure sensitive adhesive backing
- ✓ Punched/Water jet gaskets

Typical Applications

- ❖ Commercial Catering
- ❖ Food & Beverage

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SILEX SILICONES LIMITED

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Mechanical Properties

Property	Units	Spec Limits	Typical Value	Test Method
Density *	kg.m ³ lb.ft ³	300 ±40 18.7 ±2.5	315 19.7	BSENISO 845
Hardness **	Shore OO Shore A	-	50 12.0	ASTM D2240
Compression Stress 40% strain ***	kPa PSI	90 ±40 13 ±5.8	112.1 16.3	BSENISO 3386 part 1, 2
Tensile Strength	MPa PSI	0.8 min. 116	1.47 213	BSENISO 1798
Elongation to failure	%	150 min.	214	BSENISO 1798
Compression Set 50% Compression 24hrs Recovery. 22hrs @ 70°C (158°F)	%	15 max	5	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery. 22hrs @ 100°C (212°F)	%	15 max	6	BSENISO 1856
Magnetic Pull	mm	5 min	5.7	-

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

*Density measured on 25mm diameter cord sample. The density of samples of different sizes will be different from that stated here.
 **Hardness measured on 10mm thick samples. At less than 10mm the measured hardness will increase with density.
 ***Compression Stress measured on samples as defined by BSENISO 3386. The compressive stress on samples of different dimensions, especially thickness, may vary from that quoted here. For further information about physical properties for other sample sizes, please contact the technical department.

It is not possible to perform a Shore A hardness test on sponge material. These values are provided as a guideline for comparison to solid materials and as such are not designed for use in specifications.
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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	$6.4 \times 10^{-2} \text{ W.m.}^{-1} \cdot \text{K}^{-1}$	BS 874 Part 2
Radiation Resistance	$>10^5$ Grays (10^7 Rads) typical	

Accreditations

- ❖ FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)
- ❖ (a)(1)(v) horizontal flammability test
- ❖ Automotive Standard PART 571FMVSS302
- ❖ REACH compliant and ROSH compliant

Additional Information

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