

Technical Data Sheet

Silicone Rubber Sponge High Temperature (270°C)



Material

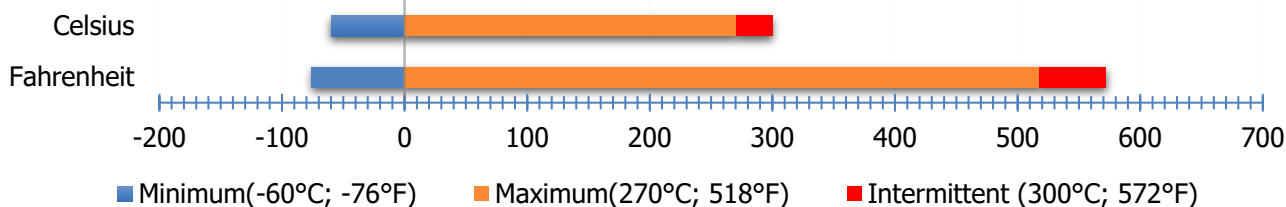
Closed cell Silicone Sponge for high temperature applications



Available Grades

SIL10HT, SIL16HT, SIL20HT, SIL24HT, SIL33HT

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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SILEX SILICONES LTD

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Availability Format

SHEETING

- Supplied in rolls or individual sheets
- Widths up to 1000mm
- Pressure sensitive adhesive backing
- Punched/Water jet gaskets
- Full range of standard colours
- Capability to colour match

Typical Applications

- Automotive
- Electronics
- Energy
- Construction
- Heating and Ventilation (HVAC)
- Industrial
- Insulations
- Lighting and Marine

Mechanical Properties

Grades		SIL10HT	SIL16HT	SIL24HT	SIL33HT	
Property	Units	Typical Value	Typical Value	Typical Value	Typical Value	Test Method
Density *	kg.m ³	220	250	390	550	BSENISO 845
	lb.ft ³	14	16	24.0	34.3	ASTM D3574
Hardness **	Shore OO Shore A	25	42	63	86	ASTM D2240
		2	5	17	30	
Compression Stress 40% Strain ***	kPa	50	90	165	470	BSENISO 33886 Part 1,2 ASTM D1056
	PSI	4.6	6,4	9.0	34.8	
Tensile Strenght	MPa	0.6	0.6	0.8	2	BSENISO 1798 ASTM D412
	PSI	87	87	116	290	
Elongation to failure	%	140	145	120	130	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24hrs Recovery, 22 hrs 70°C (158°F)	%	10.0	1.0	1.0	4.0	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery, 22 hrs 100°C (212°F)	%	22.0	4.0	4.0	10.0	ASTM D1056

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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	$6,4 \times 10^{-2} \text{W.m}^{-1}.\text{K}^{-1}$	BS2782 Part 1
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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