

# Technical Data Sheet

Silicone Rubber Sponge General Purpose Grade



## Material

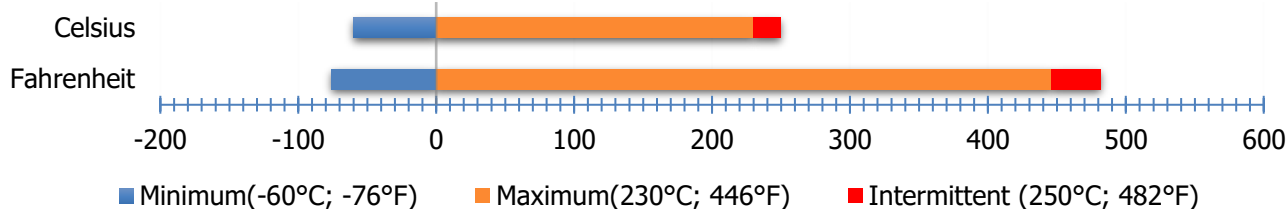
Closed Cell Silicone Sponge



## Available Grades

SIL16, SIL24 AFS Extrusion Grades

## Temperature Range



## General Information

SIL16 AFS1682 is a specially formulated grade to meet the Ministry of Defence AFS 1682 A Specification. They are particularly suited for use in high temperature seals and gaskets.

The density range in white has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F). The listing number is 1304521.

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 LTD**

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA. Tel 00 44 1420 470360, Fax 00 44 1420 472802  
E-Mail: [sales@silex.co.uk](mailto:sales@silex.co.uk), Website: [www.silex.co.uk](http://www.silex.co.uk), Registered company number: 1951973. Place of registration: England & Wales.

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## Availability Format

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### EXTRUSIONS

- Cord, section, strip, profiles
- Joined rings and gaskets
- Pressure sensitive adhesive backing
- Full range of standard colours
- Capability to colour match
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- Capability to colour match

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## Typical Applications

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

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## Mechanical Properties

Extrusions		SIL16AFS	SIL24AFS	
Property	Units	Typical Value	Typical Value	Test Method
Density *	kg.m <sup>3</sup> lb.ft <sup>3</sup>	260 16.2	400 25	BSENISO 845
Compression Stress 40% Strain	MPa PSI	95 13.8	175 25.4	BSENISO 3386 Part 1,2
Tensile Strength	MPa PSI	1.3 188.6	1.7 246.6	BSENISO 1798
Elongation to failure	%	200	150	BSENISO 1798
Compression Set 25% Compression 72 hrs, Recovery 48 hrs 150°C (302°F)	%	6 max	8 max	BSENISO 1856
Compression Stress 40% strain Change after Heat Age for 168 hours @ 150°C	kPa PSI	98 14.2	185 26.8	BSENISO 3386 part 1,2
Compression Set as above Change after Heat age for 168 hours @ 150° C	%	2	3	BSENISO 1856

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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	6,4x10 <sup>-2</sup> W.m <sup>-1</sup> .K <sup>-1</sup>	BS 874 Part 2
Radiation Resistance	> 10 <sup>5</sup> Grays (10 <sup>7</sup> 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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