



# DATA SHEET

## Silicone Sponge - SIL 16 HT

**Grades:** Extreme Temperature Silicone Sponge

**Product Form:** Silex 'HT' series is a premium grade of Silicone sponge exhibiting high temperature capabilities ranging from -60°C to +270°C (300°C intermittently). These products have a predominantly closed cell structure, offering low water absorption.

**Temperature Range:** -60°C to +270°C and up to 300°C intermittently.

### General Characteristics:

Property	Units	Spec Limits	Typical Value	Test Method
* Density (Kg.m <sup>-3</sup> )	Kg.m <sup>3</sup> lb.ft <sup>3</sup>	200±40 15.6±2.50	263 16.4	BSENISO 845
** Hardness	Shore OO Shore A		51.3 9.7	ASTM D2240
*** Compression stress (kPa) (40% strain)	kPa psi	90±40 13±5.8	84.2 12.2	BSENISO 3386 Part, 1,2
Tensile Strength	MPa psi	0.38 min 55 min	0.44 63.8	BSENISO 1798
Elongation to Failure	%	130 min	148.9	BSENISO 1795
Compression Set (50% compression) 24 hours recovery 22hrs at 70°C 22hrs at 100°C	% %	15 max 15 max	0.61 3.45	BSENISO 1856 BSENISO 1856

\* 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. Shore A values are provided as a guideline for comparison to solid materials and as such are not designed for use in specifications.

\*\*\* Compression Stress measured on samples as defined in BSENISO 3386

For further information about physical properties for other sample sizes, please contact the technical department.

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The information contained within this data sheet is subject to change without notice.

### Silex Silicones Ltd

Unit 4-5 Broxhead Trading Estate, Lindford, Bordon, GU35 0JX  
Tel: +44 1420 487130 Fax: +44 1420 489274 Email: info@silex.co.uk  
www.silex.co.uk

Registered Company NO: 1951973 Place of Registration: England & Wales  
VAT No: 432349855