



# DATA SHEET

## Silicone Sponge - SIL 20 FDA

**Grades:** FDA Approved Sponge

**Product Form:** A closed cell Silicone sponge material available in sheet, cord or extruded format produced with FDA approved ingredients.

This product is particularly suited to the food and pharmaceutical industries that require a soft, compressible material with excellent thermal stability from -40°C up to +200°C.

**Temperature Range:** -40°C to +200°C.

### Features:

- Low compression set
- Excellent resistance to weathering
- Resistance to UV and Ozone
- Good thermal insulator
- Mainly closed cell structure and sealed outer skin, suitable for air/water sealing applications
- Platinum cured
- Excellent 'white' colour (can be pigmented in other colours)
- Smooth skin
- US FDA 21 CFR 177.2600 compliant
- EC 1935/2004 compliant
- BfR recommendation XV compliant

### Availability:

SIL 20 FDA is produced in white as standard

As with all of our current products, adhesive backing is available

Gaskets and joined rings can also be provided in FDA grade to your requirements.

**General Characteristics:**

Properties	Result
Density (Imperial)	24lbs/ft <sup>3</sup>
Density (Metric)	400Kg/m <sup>3</sup>
Elongation at break (%)	215
Compression set (%)	15
Tensile strength (MPa) 10mm thick	0.85
Tensile strength (Newtons) 10mm thick	85
Temperature (max °C) Continuous	200
Temperature (min °C)	-40
Toxicity NEW 713 iss. 3	14
Smoke index NEW 711 iss. 2	46
Burn rate BS4736: 1974	0.03mm/s
Thermal conductivity (W/m.K)	0.0695W/m.K

**General Characteristics:**

25Size (mm)30	Tolerance (mm)	Tolerance (micrometer)
1 to 1.5	±0.25	±0.010
1.5 to 2.5	±0.35	±0.014
2.5 to 4	±0.40	±0.015
4	±0.50	±0.020
5	±0.50	±0.020
6	±0.50	±0.020
8	±0.70	±0.028
10	±0.80	±0.032
12	±0.80	±0.020
15	±0.80	±0.020
20	±1.00	±0.040
25	±2.00	±0.079
30	±2.50	±0.098
40	±3.00	±0.118
50	±3.00	±0.118
60	±4.00	±0.157
70	±5.00	±0.197
75	±5.00	±0.197
80 to 100	±5.00	±0.197

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

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