

**Expanded Silicone Rubber Sponge – Grade Sil 20 (FDA Approved)**

SAMCO Sil 20 Silicone Sponge is closed cell silicone sponge, manufactured from FDA certified materials. It is available in cord and extrusion form. This product can be adhesive backed. Joined rings can also be manufactured using this material.

This product is suited to the food and pharmaceutical industries.

Please read below for technical information.

**Typical Properties**

|  |                                       |
|--|---------------------------------------|
| Density (Imperial)                           | <b>20lb/ft (+/-4)</b>                 |
| Density (Metric Kg/m <sup>3</sup> )          | <b>300Kg/m<sup>3</sup> (+/-65)</b>    |
| Density (Metric g/cm <sup>3</sup> )          | <b>0.30g/cm<sup>3</sup> (+/-0.06)</b> |
| Hardness *1     Shore OO                     | <b>50 (+/-) 5</b>                     |
| Shore A                                      | <b>11 (+/-4)</b>                      |
| Elongation at break (%) 10m thick            | <b>225</b>                            |
| Compression set (%) *2                       | <b>15</b>                             |
| <b>50 % compression for 22 hours at 70°C</b> |                                       |
| <b>10mm thick sample</b>                     |                                       |
| Tensile strength (Mpa) 10mm thick            | <b>0.85</b>                           |
| Tensile strength (newtons)                   | <b>85</b>                             |
| Max Temperature (°C) continuous              | <b>200</b>                            |
| Max Temperature (°C) Intermittent            | <b>225</b>                            |
| Min Temperature (°C)                         | <b>-50</b>                            |

**Note: the above results are based on lab tested samples. Technical data is provided for guidance only in product development, quality control and material specification.**

### Features

SAMCO Sil 20 Silicone Sponge has the following properties:

- **Low compression set**
- **Excellent resistance to weathering**
- **Resistance to UV and ozone**
- **Good thermal insulator**
- **Closed cell structure and sealed outer skin, suitable for air/water sealing applications**

### Applications

The excellent properties and features of SAMCO Sil 20 Silicone Sponge enable this product to be used across a range of markets such as:

- **High and low temperature gasket seals**
- **Thermal Insulation for hot and cold applications**
- **Weather seals in external environments**
- **Food sensitive/food processing**