

Silicone Sponge

Data Sheet 01

Page 1 of 2

Introduction:

Silicone rubber can be expanded into silicone sponge by using blowing agents. The resulting sponge has a fine non-interconnecting cell structure encapsulated by a soft, smooth, outer skin. Silicone sponge is an excellent sealing medium, due to its stable chemical structure and good recovery. It can be extruded into profiles and produced in sheet form. The profiles can be butt-joined or mitred to form continuous seals; the sheet can be cut into gaskets.

General Properties:

- Minimal water absorption (IP65-66 achievable)
- Resistance to ultraviolet light and corona is good
- Resistance to arcing and ozone is good
- Oxidation is virtually non-existent
- Excellent for vibration damping and cushioning components
- Generally resistant to moderate or oxidising chemicals
- Excellent heat insulation



Specific Data:

	SP/16	SP/24	SP/33
Density (lbs per cu. ft.)	16 ±4	24 ±4	33 ±4
Density (Kg per M3)	250 ±60	400 ±60	550 ±60
Elongation %	225	215	245
Compression Set %	15	15	10
Force at Break (Newtons)	65	110	160
Temperature (Max) °C	200	200-225	225-250
Temperature (Min) °C	-60	-60	-60
Toxicity NES 711 Iss. 3	1.4	N/A	N/A
Smoke Index NES 711 Iss. 2	46	N/A	N/A
Burn Rate BS4735: 1974	0.03mm p/sec.	N/A	N/A
Thermal Conductivity	0.0695 W(m.k.)	N/A	N/A

Colour:

The standard colour of silicone sponge is off-white, but it can be supplied in a variety of colours on request, subject to minimum order.

Food Applications:

Silicone sponge can be used in applications where it will not come into direct contact with foodstuffs. Thus it can be used as seals on food containers, food processing ovens, refrigeration seals and food handling equipment. However, we do not recommend that it be used in applications where it will be in direct contact with foodstuffs.

RoHS Compliance:

We certify that our silicone sponge is RoHS compliant, and does not contain Lead, Mercury, Hexivalent Chromium, Cadmium, Polybrominated Biphenyls or Polybrominated Diphenyl Ethers