

SILICONE SPONGE



PREMSIL  
PREMIUM SILICONE

PremSil High Temp (HT) is our specialist silicone sponge formulated to deliver the same properties as our PremSil general purpose sponge, but with an increased resistance to heat up to +280°C. Particularly suited to extremely demanding temperature applications that require a soft compressible material and commonly used in a variety of applications across many industries.

**PRODUCTS:** Available as sheets, sections, cord, tubes and bespoke profiles. Supplied as lengths, O-rings, gaskets. Self-adhesive & fabric finish optional.

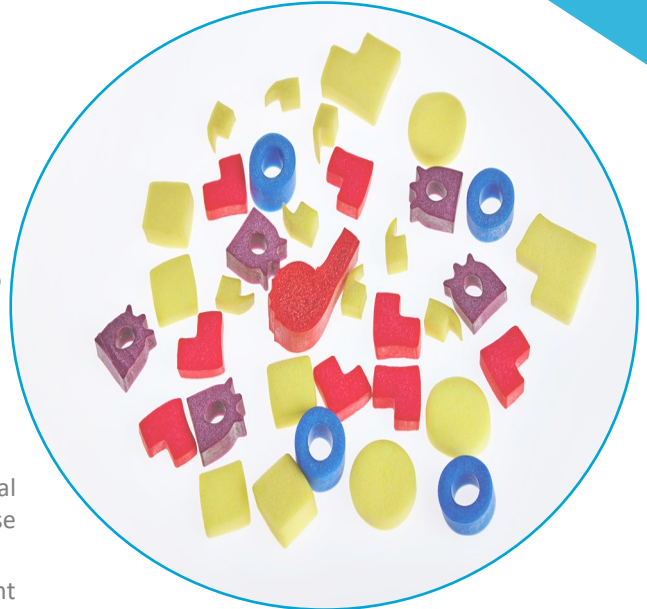
**DENSITIES:** PremSil P10 soft, P16 medium, P24 firm, P33 extra firm.

**SIZES:** From our standard range we manufacture sizes from 2.0mm to >100mm and our expertise allows us to manufacture practically any profile. The majority of sizes can be produced up to the tightest ISO 3302 E1 tolerances upon request with E3 tolerances promised as standard.

**APPLICATIONS:**

Sealing, gaskets, O-rings, extreme temperatures, vibration dampening, thermal insulation, industrial rollers, paper making, flexibility, weather resistance, noise reduction + more.

Silicone sponge’s flexibility makes it succeed where many solid profiles might fail and a great compression set means a longer lifespan, decreasing the need for maintenance.



TECHNICAL DATA	P10 (soft)	P16 (medium)	P24 (firm)	P33 (extra firm)	Test
Density (lbs/ft <sup>3</sup> )	10lbs/ft <sup>3</sup> (+/-4)	16lbs/ft <sup>3</sup> (+/-4)	24lbs/ft <sup>3</sup> (+/-4)	33lbs/ft <sup>3</sup> (+/-4)	BS EN ISO 845
Density (Kg/m <sup>3</sup> )	160Kg/m <sup>3</sup> (+/-65)	255Kg/m <sup>3</sup> (+/-65)	390Kg/m <sup>3</sup> (+/-65)	530Kg/m <sup>3</sup> (+/-65)	
Hardness* Shore OO	35 (+/-5)	47 (+/-5)	68 (+/-5)	83 (+/-5)	ASTM D2240
	Shore A <5	6 (+/-3)	18 (+/-4)	32 (+/-10)	
Elongation at break (%)	200	215	225	245	BS ISO 37
Compression set** (%)					
50% compression 22 hrs at 70°C <i>10mm thick sample</i>	15	15	15	10	EN ISO 1856
Compression Deflection (25%) typical kpa	25	50	75	100	
Tensile strength (Mpa)	0.5	0.65	1.05	1.6	BS ISO 37
Temperature (min.) (°C)	-50	-50	-50	-50	
Temperature (max.) (°C)	260	280	280	280	
Toxicity	14	14	14	14	NES713 Iss. 03
Smoke Index	46	46	46	46	NES711 Iss. 02

\*Shore A data is provided as an approximate comparison to solid rubbers only, due to testing limitations it is not possible to accurately record Shore A hardness for silicone sponge.

\*\*Compression set & density will vary depending on product size and thickness.

Please note our information is based on lab tested samples of 25mm square. Technical data is provided in good faith, but without warranty.

End users should check to ensure our products are suitable to their intended use.