

Our S Range silicone rubbers combine excellent environmental protection with a high level of shielding effectiveness. These products incorporate a matrix of vertically oriented wires which pierce both flat faces of the elastomer and provide around 100 contact points per square centimetre.

The materials, which include solid (SP Series) and sponge (SS Series) variants as well as Flurosilicone (SF Series), sponge silicone flame retardant (SG Series) and solid silicone flame retardant (SR Series) options, are produced in sheet or strip form and are usually factory fabricated and diecut into gasket profiles to customers specifications.

Applications:

The S Range is probably the most versatile of gasket materials. They provide good environmental protection and are regularly used where long service life, high performance fixed gaskets are needed.

Because of the harder nature of the material, and because it needs a strong closing force through a relatively rigid cover which is screw fixed at regular intervals, they are not generally suitable for doorseals or other applications where a regular opening and closing application applies. The possible exception to this is the SS Series.

They are usually supplied in gasket, strip or sheet form with a pressure sensitive adhesive backing which holds the gasket in the absence of a groove or channel. If a groove is available the gasket form is often a jointed 'o' ring without the adhesive backing.

Because S Range elastomers are wider than they are high when specifying the thickness should be stated first as this will be the length of the embedded wires.

How to Order:

Standard sizes may be specified from the following table.

Alternatively specify: Series-Wire Type-Thickness-Width-Adhesive backing (if required).

Series	Wire Code	Thickness/Width	Finish
SP=Solid Silicone	M=Monel	xxxx-xxxx	S/A= Self-adhesive
SS=Sponge Silicone	A=Aluminium		N/A=no adhesive
SR=Flame Retardant Solid Silicone			
SG=Flame Retardant Sponge Silicone			
SF=Flurosilicone			

Notes:

Standard material length is 900mm

Then, if the height needs to be greater than the width (i.e. to fit into a groove), there will be no doubt about your actual needs.

Particular care needs to be taken over the design of gaskets to ensure that fixing covers or doors do not distort during compression. It is often necessary to incorporate 'limit stops' into the gaskets to prevent over-compression. The material should be compressed by approximately 15% of its relaxed height. Please contact us for technical advice.

Specifications:

Solid Silicone rubber	ZZ-R-765 2b 40	
Sponge Silicone rubber	AMS 3195	
Flurosilicone rubber	Mil-R-25988 Gr 50	
Monel wire	BS3075 – NA13	(0.11mm diameter)
Aluminium 5056	AMS 4182	(0.13mm diameter)

Temperature range:

- 55°C to + 200°C

Performance:

Frequency	Field	Type dB
10 KHz	H	55
100 KHz	H	83
1 MHz	H	>100
1 MHz	E	>140
10 MHz	E	>120
100 MHz	E	>140
400 MHz	E	>100
1 GHz	P	95
10 GHz	P	85

Tolerances:

Thickness up to 1.0mm +0.25mm -0.15mm
Thickness over 1.0mm ± 0.25mm

Width tolerance on sheet material ±1.0mm

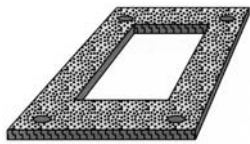
Examples:

SP-M-0016-0127-S/A is Solid Silicone with Monel wire 1.6 mm thick x 12.7 mm wide with self-adhesive.

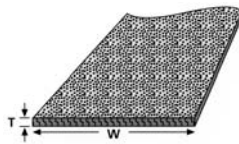
SS-A-0032-1140-N/A is Sponge Silicone with Aluminium wire 3.2 mm thick x 114 mm wide no adhesive.

For strip material not shown, or specific shapes, made up gaskets and for fixing hole positions, please send a drawing and we will allocate a part number with our quotation.

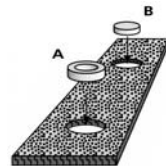
Silshield Configurations



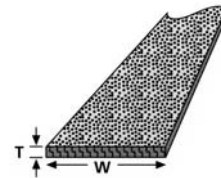
Cut Gasket Forms



Sheet



Limit Stops



Strip

Thickness mm	Width mm	Part Number Suffix
0.8	76	-0008-0760
0.8	114	-0008-1140
0.8	152	-0008-1520
0.8	228	-0008-2280
1.1	76	-0011-0760
1.1	114	-0011-1140
1.1	152	-0011-1520
1.1	228	-0011-2280
1.3	76	-0013-0760
1.3	114	-0013-1140
1.3	152	-0013-1520
1.3	228	-0013-2280
1.6	76	-0016-0760
1.6	114	-0016-1140
1.6	152	-0016-1520
1.6	228	-0016-2280
2.4	76	-0024-0760
2.4	114	-0024-1140
2.4	152	-0024-1520
2.4	228	-0024-2280
3.2	76	-0032-0760
3.2	114	-0032-1140
3.2	152	-0032-1520
3.2	228	-0032-2280
4.8	76	-0048-0760
4.8	114	-0048-1140
4.8	152	-0048-1520
4.8	228	-0048-2280
6.4	76	-0064-0760
6.4	114	-0064-1140
6.4	152	-0064-1520
6.4	228	-0064-2280
8.0	76	-0080-0760
8.0	114	-0080-1140
8.0	152	-0080-1520
8.0	228	-0080-2280
9.5	76	-0095-0760
9.5	114	-0095-1140
9.5	152	-0095-1520
9.5	228	-0065-2280

Thickness mm	Width mm	Part Number Suffix
1.6	3.2	-0016-0032
1.6	4.8	-0016-0048
1.6	6.4	-0016-0064
1.6	9.5	-0016-0095
1.6	12.7	-0016-0127
1.6	15.9	-0016-0159
2.4	3.2	-0024-0032
2.4	4.8	-0024-0048
2.4	6.4	-0024-0064
2.4	9.5	-0024-0095
2.4	12.7	-0024-0127
2.4	15.9	-0024-0159
3.2	3.2	-0032-0032
3.2	4.8	-0032-0048
3.2	6.4	-0032-0064
3.2	9.5	-0032-0095
3.2	12.7	-0032-0127
3.2	15.9	-0032-0159
4.8	4.8	-0048-0048
4.8	6.4	-0048-0064
4.8	9.5	-0048-0095
4.8	12.7	-0048-0127
4.8	15.9	-0048-0159
6.4	6.4	-0064-0064
6.4	9.5	-0064-0095
6.4	12.7	-0064-0127
6.4	15.9	-0064-0159
6.4	19.1	-0064-0191
6.4	25.4	-0064-0254
8.0	8.0	-0080-0080
8.0	9.5	-0080-0095
8.0	12.7	-0080-0127
8.0	15.9	-0080-0159
8.0	19.1	-0080-0191
8.0	25.4	-0080-0254
12.7	12.7	-0127-0127
12.7	15.9	-0127-0159
12.7	19.1	-0127-0191
12.7	25.4	-0127-0254
15.9	15.9	-0159-0159

Please note:

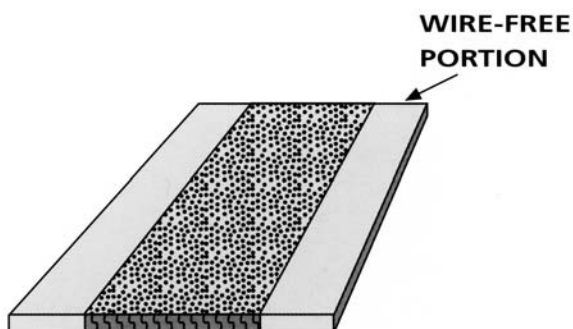
- Strip material is available in 900mm nominal lengths and can be factory bonded into longer sections.
- Sheet material is generally 114mm or 228mm nominal widths and can be edge bonded to greater widths.

Other sizes can be supplied, please contact us on 01376 550525 or email info@p-p-t.co.uk for further information.

Silshield NW

Wire-free widths can be ordered where the material cross-section has wires along just one edge, or along both edges with no wires in the centre.

This provides a pressure seal and EMI shield in one component but reduces the compressive force needed to fit the gasket. Please contact us on 01376 550525 or email info@p-p-t.co.uk to discuss your precise requirements.



Silshield Duo

Silshield Duo provides the advantages of a flurosilicone gasket with the cost-effectiveness of plain silicone.

This is achieved by bonding a wire-free fluoro-edge to a standard sheet or strip during the moulding process. Fabricated gaskets have a wire-free, contaminant resistant outer edge suitable for applications where loose wires could cause problems when gaskets are subjected to solvents or hydrocarbons and are liable to soften and swell.

