

Oriented Wires in Silicone

S-Range



P & P Technology SP, SS, SR, SW & SF ranges of gasket materials consist of Monel, aluminium or phosphor bronze wires embedded into solid silicone, sponge silicone or fluorosilicone with a flame retardant variant also being available.

The material can be supplied in strip form or as a complete gasket with options for self-adhesive tape, compression stops & limit collars.

Carrier

SP	Solid Silicone Elastomer (grey) to ZZ-R-765 2b 40
SS	Sponge Silicone (grey) to AMS3195
SR	Solid Silicone Fire Retardant (Black) to ZZ-R-765
SG	Sponge Silicone Fire Retardant (black) to AMS3195
SF*	Fluorosilicone (blue) to Mil-R-25988 Gr5
SE	Solid Silicone with Fluorosilicone Edge

Wire

Monel	0.11mm diameter to QQ-N-281
Aluminium	0.12mm diameter Alloy 5056
Phosphor Bronze	0.114mm diameter Cu Sn 6%

Physical Properties

Elastomer Hardness	Solid Carrier 35±5 Shore Micro
Compression	20% maximum recommended
Wire Count	140±15% per cm ²
Temperature Range	-65°C to +200°C

Pressure Sensitive Adhesive

Thickness	0.07mm
Release Liner	White silicone coated paper
Adhesive Type	Modified acrylic
Adhesion - Initial	13N / 25mm
Adhesion – Aged	31N / 25mm
Temperature Range	-30°C to +130°C

Shielding Effectiveness (dB) - in accordance with Mil Std 285 compression between 12-15%.

Frequency	Attenuation	Field
10KHz	55	H
100KHz	83	H
1MHz	>102	H
10kHz	>121	E
1MHz	>141	E
10MHz	>120	E
100MHz	>140	E
400MHz	>102	P
1GHz	95	P
10GHz	60	P

Storage

Non Adhesive version 10 years
Adhesive version 1 year

* The SF version is recommended where the gasket may be in contact with mineral oils, etc.

* The Monel version meets salt spray Test to ASTM B117-03

