Material Data Sheet

Swan Seals, Unit 4/5, 19 Holland Street,
Aberdeen, AB25 3UJ, UK
+44 (0) 1224 648 999 sales@swanseals.co.uk

Silicone (SIL)

SIL is a red Methyl Silicone Rubber, commonly refered to as Silicone. Silicone materials are often used in hot air and applications where chemicals and foods are in contact with the sealing material. Because of lower mechanical properties Silicone materials should not be used for dynamic applications. This material meets the requirements of the FDA legislation for contact with food stuffs.

PHYSICAL PROPERTIES			
Specific gravity	DIN 53479	g/cm³	1.54
Hardness at 20°C	DIN 53505	Shore A	83
Tensile strength	DIN 53504	N/mm²	>7
Elongation at break	DIN 53504	%	>120
Compression set 22h/175°C	DIN 53517A	%	18.5
Min. Sevice temperature		°C	-55
Max. Sevice temperature		°C	210

MAIN APPLICATION
Seals (standard and special)
Wipers
Rotary seals
O - Rings, Flange seals and gaskets

CHEMICAL RESISTANCE	
Water up to 70°	R
Water up to 90°	S
HFA	R
HFB	R
HFC	R
HFD	S
Mineral Oils	S
Vegetable Oils	R
Fuels	U
Ozone	R
Air up to 100°	R
Air up to 150°	R
Air up to 200°	R

KEY TO CHEMICAL RESISTANCE
R = resistance
S = suitable
U = unsuitable

ANALYSIS AND EVALUATION

The mentioned properties are only valid for testpieces of the corresponding ISO, DIN and ASTM standards. They cannot be directly related to seals, gaskets and other sealing products and should be used only as a general guide.