

SAMCO SILICONE PRODUCTS

data sheet 2

Platinum Extruded Reinforced Tubing

'SILGIENE': A continuously extruded platinum reinforced silicone rubber tubing. Standard reinforcement of glass fibre braiding sandwiched between vulcanised layers of silicone rubber. A working temperature of 220°C is therefore attainable with hot air sterilization to 250°C. Vapour sterilization to 3.8 bar. Every coil is tested to recommended working pressure (Din 20024). Stock bore size range 3.0mm to 32.0mm. Silicone rubber liner material to FDA 177.2600, USP CLASS VI, BGA XV and EP VI.1.3.2 (silicone elastomer for closures and tubing).

A 200% factor of safety is applied to recommended reinforced tubing working pressures. Working pressures stated are at 20°C, temperatures over 100°C will result in a decrease in working pressure, consult SAMCO for further information. Higher working pressure and variation in specification to minimum order.

Variation in tolerance requirement may be agreed prior to manufacture.

Size	Working Pressure (PSI)	Test Burst Pressure
3.0 x 3.0	444	888
4.0 x 3.0	440	880
5.0 x 3.0	350	700
6.0 x 3.0	259	518
8.0 x 3.5	185	370
10.0 x 3.5	185	370
12.5 x 3.5	185	370
16.0 x 5.0	163	326
19.0 x 5.5	148	296
22.0 x 6.0	133	266
25.0 x 6.0	111	222
32.0 x 6.5	72.5	145
38.0 x 6.5	72.5	145
50.0 x 7.0	43.5	87

TECHNICAL or 'GENERAL PURPOSE' grades for industrial applications:

Silicone compounds can be engineered to suit a particular requirement or specification, for example, limits of temperature, fire resistance/flamability etc.. High temperature variants can be engineered to 315°C continuous working.

Variations in colour to BS or RAL spec numbers available to special order (chart available).

Braid, pitch and gauge varied along with silicone thickness to achieve variation in pressure rating.