



Silicone hose systems designed
for precision and performance

DS004

Castellated silicone coolant hose with polyester reinforcement and wire helix

For more information or data, please visit www.silflex.com or contact us
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General Use

Silflex castellated coolant hose has been specifically designed for the demanding requirements of truck, bus and rail applications. It is primarily designed for use in coolant and heating systems, and is not adversely affected by anti-freeze or corrosion inhibitors. It can however be used in many other applications where the properties of silicone are preferable to those of other rubbers, or where a flexible joint is required between rigid pipe work. The castellated shape allows for more flexibility than standard wire reinforced hose, and the wire helix will allow the hose to perform at negative pressures (not full vacuum).

Working temperature range: -50°C to +180°C.

Working pressures: dependant on hose construction and customer requirements.

Construction

Plies of silicone, reinforced with polyester fabric, and a galvanised spring steel wire helix buried between the plies. The number of plies will vary depending on the working pressure, bore size, and required wall thickness.

Material Specifications

Standard silicone rubber compound

Colour: Various (Blue as standard)
Hardness (IHRD): 65 ± 5
Specific gravity (g/cm^3): 1.18 ± 0.05
Tensile strength (MPa): 8.6
Elongation at break (%): 308
Tear strength (kN/m): 13

The above physical properties refer to a test sheet press cured for 5mins at 115°C. Tested to the relevant BS903 standard.

Fluid resistance figures are available on request.

Knitted polyester fabric

Description: Fine mesh
Yarn type: 100% polyester
Finish: Scour & set
Bursting strength (fabric)
(7" internal dia. ring): 33Psi
Extensibility at burst: 60%
Thickness: 0.022" (0.56mm)

Spring steel wire helix

Constructed from galvanised spring steel wire (to BS5216 HS3) at a spacing of 2–3 TPI and buried between the plies.

Certificates of Conformity

Certificates of conformity can be supplied with deliveries if required