

Material Data Sheet



Hi-Temp Glass Fabric Reinforced Hoses

To complete the range of materials used in Artel hoses we can offer the ultimate in high temperature resistance: Hi-Temp hoses. These hoses are reinforced with a fabric made from woven glass roving which unlike meta-aramid will maintain its strength at temperatures well in excess of 350°C. The silicone rubber used is an enhanced compound with additional stabilisers designed for extreme temperature use. Hoses made with these materials will work at 230°C continuously and will also withstand intermittent exposure to temperatures of over 300°C.

As with all rubber hoses the rate of degradation of properties is a complex integral of the exposure time, the temperatures and the frequency that this happens. For this reason we suggest real-time testing of products which are going to be used at the upper limits of performance for polymeric materials.

We do not recommend glass reinforced hoses for severe dynamic applications; meta-aramid is superior in this respect although its temperature capabilities are slightly lower. Please see Aramid Hose Data Sheet.

Hose Characteristics:

Colour – Pink.

Reinforcement – glass fabric, the number of plies according to application.

Available as straights, elbows, reducers etc. plus of course bespoke hoses to your requirements.

Rubber Properties:

<i>Property</i>	<i>Result</i>	<i>Aged 21 days at 250°C Hot Air</i>	<i>Aged 7 days at 300°C Hot Air</i>
Hardness Shore A	70°	77°	84°
Specific Gravity	1.19		
Tensile Strength	9.5 MPa	4.7 MPa	4.7 MPa
Elongation at Break	530%	130%	100%
Tear Strength	25 N/mm		
Rebound Resilience	47.0%		
Colour	Pink		