



Quick Glance Material Chart

Material	Standard Colour	Shore Hardness	Applications	Temperature
Nitrile	Black	90	Transformer and machine oils.	- 40 ⁰ to +135 ⁰ C
		80	Engine oils S.A.E 10 to 40 and multigrade. Tractor Universal Oil.	
		70	Pneumatic applications.	
		60	Water and Sea-water.	
		70	Water-soluble oil emulsions. Anti-freeze (water/ethylene-glycol)	
High Nitrile	Black	75	Gear oils S.A.E 70 to 120 and E.P Lubricants. Ester-based lubricants. Paraffin and Petrol.	- 30 ⁰ to +135 ⁰ C
		75	Towns and natural gases.	up to +80 ⁰ C
Neoprene	Black	70	Resistant to weathering, oxidation & ozone.	- 30 ⁰ to +80 ⁰ C
Polyurethane	Opaque/Cloudy	70	High abrasion resistance.	- 30 ⁰ to +90 ⁰ C
EPDM	Black	70	Exhibits good weathering and ozone resistance. Resistance to castor based and certain F.R fluids. Excellent resistance to hot water and steam.	- 50 ⁰ to +120 ⁰ C
Viton	Black	75	Good resistance to numerous chemicals, mineral oils/fuels.	- 25 ⁰ to +250 ⁰ C
		75	Towns and natural gases.	up to +80 ⁰ C
Silicone	Red	70	Extreme temperature compound, limited oil and fuel resistance. Good resistance to hot air and satisfactory for use in hot water.	- 60 ⁰ to +200 ⁰ C
Perfluoroelastomeric Isolast, Kalrez, Perlast	Black	/	They have excellent resistance to high temperatures and chemicals. They also show low swelling with almost all media.	New materials extend capabilities to +325 ⁰ C
PTFE	White	/	Chemically inert.	- 50 ⁰ to +175 ⁰ C
FEP Encapsulated Silicone	FEP: Clear Silicone: Red	/	Good chemical resistance to most liquids, exception of liquid alkaline metals and some fluorine compounds.	- 60 ⁰ to +200 ⁰ C
FEP Encapsulated Viton	FEP: Clear Viton: Black	/	Physiologically safe and can be sterilized.	- 20 ⁰ to +200 ⁰ C

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**Hydraulic Equipment Supermarkets
Gloucester**
Dowco House
Innsworth Technology Park
Innsworth Lane
Gloucester, GL3 1DL

T 01452 730774
F 01452 731637
E gloucester@grouphes.com

**Hydraulic Equipment Supermarkets
Birmingham**
Unit 3 Cheston Road
Aston
Birmingham
B7 5EA

T 0121 327 2664
F 0121 322 2488
E birmingham@grouphes.com

**Hydraulic Equipment Supermarkets
Durham**
Unit 7A Drum Industrial Estate
Chester-Le-Street
County Durham
DH2 1AG

T 0191 410 6619
F 0191 411 1055
E durham@grouphes.com

**Hydraulic Equipment Supermarkets
Leeds**
Unit 6A
Millshaw Park Industrial Estate
Leeds
LS11 0LX

T 0113 270 7295
F 0113 270 3213
E leeds@grouphes.com



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