

Natural Rubber 110 °C Max Temp. -
Good mechanical properties. Resistant to water. Fair to good resistance to acids and alkalis. Poor resistance to oils petrol. Poor resistance to weathering.

Butyl 150 °C Max Temp. -
Very good resistance to water, alkalis, many acids. Poor resistance to oils, petrol, and most solvents.

Nitrile 150 °C Max Temp. -
Very good resistance to water. Fair resistance to alkalis, acids. Excellent resistance to oils and petrol.

Polysulphide 66°C Max Temp. -
Very good resistance to water. Good resistance to alkalis, fair resistance to acids. Excellent resistance to oils, petrol, aliphatic and aromatic hydrocarbon solvents. Poor mechanical Properties

Neoprene 120°C Max Temp. -
Good resistance to water and alkalis, fair resistance to acids. Good resistance to non-aromatic petroleum, fatty oils, solvents (except aromatic, chlorinated or ketone types). Excellent mechanical Properties

Acrylic 230°C Max Temp. -
Good heat resistance. Poor low temperature properties. Poor resistance to water, alkalis and some acids. Poor resistance to steam and at high temperatures. Fair to good resistance to alkalis and acids. Good resistance to oils, petrol, aliphatic and aromatic hydrocarbon solvents

Hypalon-Chlorosulphonated Polyethylene 230°C Max Temp. -
Good Mechanical properties. Excellent resistance to oxidising chemicals, ozone weathering. .Relatively good resistance to oils and greases. Poor resistance to oils, petrol, aliphatic and aromatic hydrocarbon solvents

Viton/Kel-F/Fluoroelastomer 230°C Max Temp. -
Good mechanical properties. Excellent resistance to ozone weathering. Can be used at high temperatures with many fuels, lubricants, hydraulic fluids, solvents.

Asbestos Derivatives 600°C Max Temp. -
Large number of composites and combinations- Asbestos is not really acceptable for use in UK for health reasons.

Cork Composites	120 ⁰ C Max Temp.	-
Low cost. Compressible allowing substantial deflection with negligible side flow. Will conform to irregular surfaces. High resistance to oils. Good resistance to water and many chemicals. Should not be used with inorganic acids and alkalis.		
Cork Rubber	150 ⁰ C Max Temp.	-
Low Cost. Defined compressibility. Good fatigue resistance. Chemical resistance dependent on rubber used.		
PTFE/Teflon/ PolyTetrfluoroethylene	250 ⁰ C Max Temp.	-
Excellent resistance to most chemicals and solvents. Good heat resistance. Exceptional low temperature properties. Low compressibility. Low resilience tends to creep under stress.		
Filled PTFE/Teflon	Up to 250 ⁰ C Max Temp.	-
Improved mechanical properties - however filling material can impair chemical properties.		
PTFE/Teflon composites(lined)	Up to 250 ⁰ C Max Temp.	-
Chemical properties comparable with virgin PTFE. Inner gasket material providing improved resilience and deformability.		
Polythene	70 ⁰ C Max Temp.	-
Resists most solvents- Poor heat properties		
Neoprene Impregnated wood fibre	80 ⁰ C Max Temp.	-
No porous – good for glycol, oil, and petrol		
SBR bonded Cotton	105 ⁰ C Max Temp.	-
Good water resistance		
Nitrile Rubber - Cellulose fibre	105 ⁰ C Max Temp.	-
Oil resistant up to reasonably high temperatures		
Inorganic Fibre	1000 ⁰ C Max Temp.	-
Excellent heat properties - poor mechanical properties		

Graphite /Carbon Fibre 1000⁰C Max Temp. -
 Excellent heat properties - Excellent chemical and mechanical properties based
 on product selected.

Felt-Pure - -
 Resilient, compressible, and strong but not impermeable. Resists medium
 strength mineral acids and dilute mineral solutions if not intermittently dried.
 Resists oils greases, waxes, solvents. Damaged by alkalis.

Felt-PTFE Impregnated 130⁰C Max Temp. -
 Good chemical and heat resistance

Lead 260⁰C Max Temp. -
 Good general chemical resistance. Best conformity of all metals

Tin 260⁰C Max Temp. -
 Good resistance to neutral chemicals. Attacked by acids and alkalis

Aluminium 430⁰C Max Temp. -
 High corrosion resistance. Slightly attacked by strong acids and alkalis

Copper & Brass 430⁰C Max Temp. -
 Good corrosion resistance at moderate temperatures

Nickel 760⁰C Max Temp. -
 High corrosion resistance

Monel 650⁰C Max Temp. -
 High corrosion resistance. Good for use with wide range of acids and alkalis.

Inconel 1000⁰C Max Temp. -
 Excellent heat and oxidising resistance.

Stainless Steel 600⁰C Max Temp. -
 High corrosion resistance depending on grade used.

Leather 100⁰C Max Temp. -
 Low cost. Limited chemical and heat resistance. Not recommended against
 pressurised steam, acid or alkali solutions.