

Often used seat-/sealing materials in valves.

Material	Code	Properties	Temperature
<i>Acrylonitrile-butadiene rubber</i> Nitril Buna N Perbunan	NBR	NBR has good mechanical properties, good low-temperature behavior and a higher abrasion resistance than most other elastomers. It's highly resistant to mineral oils, HFA, HFB and HFC liquids. The ozone and weather resistance is limited.	-20°C to +90°C
<i>Ethylene-propylene rubber</i>	EPDM	EPDM is ideal for use in phosphate-ester-based hydraulic fluids, for glycol-based brake fluids, hot water and hot steam. It has good ozone and weather resistance but it's not resistant to mineral oil products.	-10°C to +120°C
<i>Chlorosulphonated – polyethylene.</i> Hypalon	CSM	Good chlorine and weather resistance. Bad for oils and grease.	-10°C to +100°C
<i>Fluorocarbon rubber</i> Viton	FPM	This material is excellent for high temperatures and has good chemical resistance. With applications in water and steam the upper temperature limit is approx. +60°C . On account of it's low permeability to gas FPM is suitable for high vacuums. However, it has good resistance to mineral oils, HFA, HFB and HFD fluids and is resistant to ozone and weather.	-25°C to +200°C
<i>Silicone rubber</i>	VSI	VSI behaves well at high and low temperatures, has good weather resistance and good physiological properties. It's the material of choice for hot air. Its mechanical properties are moderate and it's not resistant to mineral oils. VSI should not be used as a material for dynamic seals.	-50°C to +210°C
<i>Polyurethane elastomer</i>	AU	Polyurethane elastomers are split up into polyester urethanes (AU), which generally have the better mechanical properties, and polyether urethanes (EU), which have the better hydrolysis properties. Both have excellent resistance to wear, high crack resistance and elasticity, as well as low permeability to gas. AU has good resistance to mineral oils.	-20°C to +90°C
<i>Polytetrafluoroethylene</i> Teflon	PTFE	PTFE has virtually universal chemical resistance and very high thermal resistance. Its slip and electrical properties are very good, whilst resistance to weather and UV is excellent. The mechanical properties of PTFE are improved by adding various fillers. In areas with high exposure to radiation this plastic decomposes.	-50°C to +200°C

Fagerberg Norge AS

Pancoveien 28
1624 Gressvik

Tel: 69 35 55 30

Faks: 69 35 55 31

www.fagerberg.no