

## 1.4 Seal materials

Designation	Commercial denomination	General characteristics	Typical applications
NBR (Acrylic-nitrile butadiene)	BUNA -N PERBUNAN ELAPRIM JSR-N	A synthetic elastomer with good mechanical and thermal properties. Good resistance to oils. Poor resistance to ozone and atmospheric derivatives.	Water (max T=+70°C) Air (max T=+90°C) Mineral oils and their derivatives, hydrocarbons, methane, ethane, propane, butane, kerosene oil, fuel oil.
EPDM (Ethylene-propylene-diene)	BUNA- AP DUTRAL NORDEL	A synthetic elastomer derived from the co-polymerization of ethylene and propylene. Suitable for use with non-phosphoric based hydraulic fluids(hold). Water and steam to a max. temp. of 140°C. Not suitable for use with mineral based products. (oil, grease, fuel oils and petrol)	Hot water and steam. Detergents. Potassium and sodium solutions. Hydraulic fluids. Polarised solvents. Skydrol 500 and 700 *
FPM (Fluorocarbon)	VITON TECNOFLON FLUOREL	A synthetic elastomer derived from fluor-propylene. Excellent resistance to the high temp. Excellent resistance to ozone, oxygen, mineral oils, synthetic hydraulic oil, petrol, hydrocarbons and many other chemicals. Not suitable for use with superheated steam.	For general use up to +130°C
PTFE (Polytetrafluorethylene)	TEFLON	Thermoplastic material used also filled with a mineral resin. Excellent resistance to many chemicals. Optimum high temp. resistance. Poor resilience, improved by adding the mineral filling.	For general use up to +160°C