Technical Information - Rubber Types

Rubber Type	Working Temperature	Application Areas
NITRILE Rubber (NBR)	55 °C - 135 °C	Used in areas requiring resistance to fuels and oils, good mechanical properties, heat and abrasion resistance. Typical applications: static seals, O-rings, crankshafts and valves as sealing elements, membranes, tank linings, work boots and soles, gasoline, diesel, liquefied gases, petroleum-based fluids, motor oils, diesel fuels, hydraulic oils, mineral oils, machine oils.
CHLOROPRENE Rubber (Neoprene - CR)	40 °C - 120 °C	Resistant to atmospheric conditions, ozone, water and salt water, and gaseous petroleum products. Also suitable for mineral fluids, lemonade, beer, wine, milk, castor oil and vegetable oils, soda water, alcohol, chlorine.
ETHYLENE PROPYLENE Rubber (EPDM - EPM)	65 °C - 170 °C	Resistant to outdoor effects, ozone, hydraulic brake fluids, boiling water and hot steam, alcohol, chlorine, phosphorus-based flammable substances, acetone, mineral water, lemonade, beer, wine, milk and dairy products, castor oil and vegetable oils. Not suitable for mineral oils. Suitable for low friction applications.
STYRENE BUTADIENE Rubber (SBR)	60 °C - 125 °C	Used in brake systems of motor vehicles, silicone oils, acetone and low ketones, alcohol, diluted alcohol. Not suitable for natural gas or mineral oils.
POLYURETHANE (AU - EU)	60 °C - 90 °C	Applications in pneumatic systems, oils, flammable oils, crude oil, petroleum. Poor resistance to ozone, sunlight, water, strong vinegar, ketones, chlorine and nitrogen hydrocarbons. Excellent resistance to high pressure, tearing, and abrasion.
SILICONE (VSI - MQ)	70 °C - 230 °C	Resistant to hot air, oxygen, high temperature inert gases, hot liquids, ozone, motor and gear oils, animal and vegetable oils, brake fluids.
FLUOROELASTOMER (VITON - FKM)	25 °C - 260 °C	Resistant to mineral oils, high flash point hydraulic oils, greases, aliphatic and aromatic hydrocarbons, gasoline, premium gasoline, kerosene, benzene, silicone oils, gases, hot air, methanol-gas mixtures, synthetic oils, inorganic acids, halogenated hydrocarbons.
NATURAL Rubber (NR)	60 °C - 100 °C	Resistant to acids and bases, alcohol, cold and hot water. Used in areas requiring high elasticity and mechanical properties.