



ELASTOMER	T°	CHARACTERISTICS	APPLICATIONS	NOT TO BE USED FOR
NR	-60/+80°C	Resistance to heat, abrasion ; good mechanical resistance	Flexible parts, pneumatic application	Oils, atmospheric factors
SBR	-40/+100°C	Resistance to heat, abrasion ; good mechanical resistance	Belts, pneumatic application	Oils, atmospheric factors
EPDM	-55/+160°C	Resistance to ozone, acids, diluted bases	Gaskets for automotive, railways, electrical appliances, building	Oils, fire
IIR	-40/+130°C	Resistance to ozone, acids ; impermeable, non-toxic	Shock absorbers	Oils
NORSOREX®	-40/+80°C	Flexibility, bending ; damping properties	Fluid resistant, shock absorbers, low hardness	Resistance to ozone, heat, hydrocarbons
CR Neoprene	-40/+110°C	Resistance to ozone, oil, grease, seawater ; self extinguishable	Outside application, bellows	Solvents
CSM Hypalon®	-50/+120°C	Resistance to ozone, oils, acids, bases, U.V ; self extinguishable	Maritime, outdoor applications, cables	Solvents
NBR	-50/+125°C	Resistance to hydrocarbons, oils, impermeable greases , abrasion	O-rings in contact with fuels/oils	Atmospheric factors
HNBR	-40/+150°C	Resistance to petrols, oils, ozone ; hydrogen sulphide	Drilling	Resistance to cold
Mixable PU	-50/+90°C	Resistance to hydrocarbons, oils, greases ; abrasion, good mechanical characteristics	Expendable parts, abutments	Steam, hydrolysis
FKM	-35/+260°C	Resistance to strong acids, oil, petrol	Automotive, aeronautics	Cold, ketone
FFKM	-15/+325°C	Excellent resistance to fluids, and high temperatures	Offshore, aeronautics, automotive	Cold
VMQ Silicone	-110/+300°C	Resistance to oxygen, ozone ; excellent dielectric, non-toxic	Food industry, medical	Permeability, solvents, steam
FVMQ fluorinated Silicone	-55/+225°C	Resistance to solvents, oils, hydrocarbons	Aeronautics, aerospace	Ketone ; mechanical properties

ELASTOMERIC CHEMICAL PROPERTIES COMPARISON TABLE

	NR NATUREL	SBR	CR NEOPRENE	EPDM	NORSOREX®	NBR NITRILE	IIR BUTYL	HNBR THERBAN®	CSM HYPALON	VMQ SILICONE	FKM VITON®	FFKM	AU PU	FVMQ fluorinated SILICONE
FUELS	4	4	3-4	4	4	2	4	2	3-4	4	1	1	1-2	2
ALCOHOLS	2	2	1-2	3	3-4	2-3	2	2-3	1-2	2	1-4	1	2-4	2
ACIDS	2-3	2-3	2-3	2-3	3-4	2-3	2	2-3	2-3	4	2	1	4	2-3
BASES	2-3	2-3	2	2	3-4	2-3	1	2-3	1	4	2-3	1	4	2-3
PETROLEUM OIL (*)	4	3-4*	1-4*	4	4	1	4	1	1-4*	1-4*	1	1	1	1
HALOGEN SOLVENTS	4	4	4	4	4	4	4	4	4	4	2	1	4	3
OXYGEN SOLVENTS	3	3	3	2	3-4	4	1	4	4	4	4	1	3	4
HYDRAULIC FLUIDS (PHOSPHORIC ESTER)	4	4	4	1	4	4	1	4	4	2	4	1-2	4	3
SYNTHETIC LUBRICANTS (diesters)	4	4	4	4	4	1	4	1	4	2	1	1-2	3	1
STEAM	3	3	2	1	3	1	1	1	2	3	3	1	4	2

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1 = low effect / 2 = minor effect / 3 = moderate effect / 4 = severe effect

* ASTM3