

Seal material

Properties of Rubber Used for O-Rings

SEAL MATERIAL		WORKING TEMPERATURE RANGE	FEATURES
COMMON NAME	NITTO SYMBOL		
NITRILE RUBBER	NBR (SG)	-20°C ~ +80°C	Standard seal with excellent oil and wear resistance profile. High nitrile rubber is particularly oil resistant. Low nitrile one has excellent low temperature resistance but less oil resistance.
HYDROGENATED NITRILE RUBBER	HNBR (H708)	-20° ~ +120°C	For freezer oil resistant and hydrochlorofluorocarbon (HFC134a) resistant applications.
FLUORO RUBBER	FKM (X-100)	-20°C ~ +180°C	Excellent heat resistance, as well as oil and chemical resistance is good for wide range of applications.
CHLOROPRENE RUBBER	CR (X-306)	-20°C ~ +80°C	Excellent resistance to weather variations, also little affected by ultraviolet and/or ozone.
	CR (C308)	-20°C ~ +80°C	In addition to conventional durability features, suitable for hydrochlorofluorocarbon (HFC134a) resistant applications.
ETHYLENE-PRPYLENE RUBBER	EPDM (EPT)	-40°C ~ +150°C	Excellent resistance to steam and hot water also excellent resistance to weather variations and ozone.
PERFLUOROELASTOMER	P	0°C ~ +50°C	Excellent resistance to chemical and solvents.