

Technical Data Sheet

Nitrile Rubber WCMP559

CHEMICAL DESCRIPTION:

Acrylonitrile Butadiene, Nitrile Butadiene Rubber (NBR)

PHYSICAL PROPERTIES

TENSILE STRENGTH:	10 MPa
ELONGATION AT BREAK:	330%
ABRASION RESISTANCE:	Good
HARDNESS RANGE:	70° Sh. A +/- 5°
HEAT RESISTANCE:	-20° - + 80°C (90°C Short Term)
COMPRESSION SET:	22 Hrs @ 100°C = +40% Change



CHEMICAL RESISTANCE

WATER:	Good to Excellent
DILUTE ACIDS & BASES:	Good
ALKALIS:	Good to Excellent
OZONE:	Poor
HYDROCARBONS:	Moderate
SOLVENTS:	Moderate

	Inc. in Hardness Sh. A	Inc. in Tensile %	Inc. in Elongation %
THERMAL AGEING: 70 HOURS @ 100°C	+10	-10	-35
VOLUME SWELLING: 70 HOURS @ 30°C	Fuel B Inc. (ISO 1817) %	IRM903 Inc. Vol. Oil %	
70 HOURS @ 70°C	20	10	

This is a high grade Nitrile rubber with good mechanical properties. It has good oil resistance, recommended for most aliphatic and aromatic oils. It also has good resistance to Benzene and moderate resistance to acids.

ELASTOMERS

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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