

Technical Data Sheet

Nitrile Insertion WCMA66

CHEMICAL DESCRIPTION: Acrylonitrile Butadiene, Nitrile Butadiene Rubber (NBR)

PHYSICAL PROPERTIES

TENSILE STRENGTH: 5 Mpa min.
 ELONGATION AT BREAK: 300%
 COMPRESSION SET: 35%
 HARDNESS RANGE: 70° Sh. A +/- 5°
 HEAT RESISTANCE: -15° - + 90°C
 OZONE RESISTANCE: Poor
 RESILIENCE: Poor



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 @ 70°C	5	-15	-40
VOLUME SWELLING: 70 HOURS @ 70°C	ASTM 5 Inc. Vol Oil % 10	IRM903 Inc. Vol. Oil % 60	

At one time Nitrile was the material of choice for resistance to fuels and oils, however as fuels have developed over the years, Nitrile has become less suitable, particularly where bio-fuels are concerned. As the table above shows in the IRM903 oil test Nitrile swelled 60%. However Nitrile still has a use with some oils and has good resistance to inorganic chemical products except antioxidant agents and chlorine. This grade has an insertion for added strength.

ELASTOMERS



Certificate Number: 14352
 ISO 9001



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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