

Technical Data Sheet

Hydrogenated Nitrile Rubber WCM213

CHEMICAL DESCRIPTION:

Hydrogenated Acrylonitrile Butadiene,

PHYSICAL PROPERTIES

TENSILE STRENGTH:	1422 PSI
ELONGATION AT BREAK:	200%
ABRASION RESISTANCE:	Good
HARDNESS RANGE:	70° Sh. A +/- 5°
HEAT RESISTANCE:	-30° - + 150°C
OZONE RESISTANCE:	Excellent
COMPRESSION SET:	50%



CHEMICAL RESISTANCE

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

	Inc. in Hardness Sh. A	Inc. in Tensile %	Inc. in Elongation %
THERMAL AGEING: 72 HOURS @ 70°C	+2	+5	+/-10
VOLUME SWELLING: 72 HOURS @ 70°C	IRM901 Inc. Vol Oil % 1	IRM903 Inc. Vol. Oil % 10	

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. Also known as highly saturated nitrile (HSN), HNBR is widely known for its physical strength and retention of properties after long-term exposure to heat, oil, and chemicals.

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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