

ROMAC INDUSTRIES, INC.

**NITRILE BUTADIENE RUBBER (NBR)
FAB COUPLING NSF61 CERTIFIED GASKETS
GASKET MATERIAL**

SUBMITTAL INFORMATION

USE: Acrylonitrile Butadiene Rubber, commonly known as NBR* or Buna-N, is formulated for hydrocarbon service. It is used extensively in the petroleum and natural gas industries, and in applications such as water, sewer, mineral oil, and vegetable oil.

CHARACTERISTICS:

Temperature Range:	-40 ° F to +180 ° F Continuous
Weathering:	Fair
Abrasion:	Good
Compression Set:	Good
Tearing:	Good

CHEMICAL RESISTANCE:**

Natural Gas	Excellent
Methane	Excellent
Ethane	Excellent
Water	Excellent
Sewer	Excellent
Carbon Dioxide	Excellent
Gasoline	Excellent

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SPECIFICATIONS:

Requirements of ASTM D 2000 MBK 710Z

Vulcanizate Properties

Cure: 18 minutes at 315 °F (157.2 °C)

<u>Stress-Strain and Hardness</u>	<u>Requirement</u>
Tensile Strength, psi, min	2000
Elongation, %, min	300
Hardness, Duro A, pts	75 ±5

Vulcanizate Properties (Continued)

◦ Heat Resistance, ASTM D 573 70 hours at 212 °F (100°C)	
% change in Tensile Strength.	±30 max
% change in Elongation.	-50 max
Change in Hardness.	±15 points
◦ <u>Compression Set ASTM D 395,</u> Method D 395 solid	
22 hours at 212 °F (100 °C)	50 % max

* NBR is equivalent to Rockwell (Smith-Blair) Grade 60 and Dresser Grade 42.

** NBR is resistant to a wide variety of chemicals. For applications involving materials not listed, contact Romac Industries, Inc. Other gasket compounds are available from Romac for use where NBR is not suitable.

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4/10

This information is based on the best data available at the date printed above, please check with Romac Engineering Department for any updates or changes.