

NITRILE BUTADIENE RUBBER (NBR) NSF 61 CERTIFIED RUBBER GASKET MATERIAL

SUBMITTAL INFORMATION

USE

Nitrile 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

SPECIFICATIONS

Requirements of ASTM D 2000 MBK 710Z

VULCANIZATE PROPERTIES

Cure: 18 minutes at 315°F (157.2°C)

STRESS-STRAIN & HARDNESS REQUIREMENT

Tensile Strength, psi	1450
Elongation, %	250
Hardness, Duro A, pts	75 ±5

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

COMPRESSION SET ASTM D 395

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.

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

