



World Class Sealing Solutions

4700-70

70 Durometer NBR Sulfur Cured Nitrile (Buna-N)

General Properties:

General purpose elastomer resistant to Aliphatic Hydrocarbons, vegetable and mineral oils and greases, dilute acids at low temperature, water up to 150°F, service temperature -35°F to + 250°F. Meets the requirements as required by API 6A and API 6D. This material meets the requirements of ASTM D2000 M2BG 710 A14 B14 EA14 EF11 EF21 EO14 EO34.

ASTM <u>Designation</u>	<u>Original Properties</u>	ASTM D2000 <u>Specification Values</u>
D2240	Hardness type A Durometer	70 +/- 5
D412	Tensile, psi (MPa), Minimum	1450 min.
D412	Elongation, % Minimum	250 min.
D412	Modulus, psi @ 100% Elongation	400 min.
	Specific Gravity	1.25 +/- .03
D513	<u>(A14) Heat Age, 70 HRS @ 100°C (212°F)</u> Durometer Change, Points	+/- 15
	Tensile Strength Change, % Maximum	+/- 30
	Elongation Change, % Maximum	-50
D395 B	<u>(B14) Compression Set, 22 HRS @ 100°C (212°F)</u>	25 max.
D471	<u>(EA14) Water, 70 hours at 100°C (212°F)</u> Durometer Change, Points	+/- 10
	Volume Change, %	+/- 15
D471	<u>(EF11) Reference Fuel A, 70 hours at R.T.</u> Durometer Change Points	+/- 10
	Tensile Change, % Maximum	- 25
	Elongation Change, % Maximum	- 25
	Volume Change, % Maximum	- 5 to + 10
D471	<u>(EF21) Reference Fuel B, 70 hours at R.T.</u> Durometer Change Points	- 30 to 0
	Tensile Change, % Maximum	- 60
	Elongation Change, % Maximum	- 60
	Volume Change, %	0 to + 40
D471	<u>(EO14) ASTM # 1 Oil, 70 hours @ 100°C (212°F)</u> Durometer Change Points	- 5 to + 15
	Tensile Change, % Maximum	- 25
	Elongation change, % Maximum	- 45
	Change in Volume, %	- 10 to + 5
D471	<u>(EO34) IRM 903 Oil, 70 hours @ 100°C (212°F)</u> Durometer Change, Points	- 10 to + 10
	Tensile Change, % Maximum	- 45
	Elongation Change, % Maximum	- 45
	Volume Change, %	0 to + 25