4300-90
90 Durometer NBR Peroxide Cured Nitrile (Buna-N)

General Properties:
General purpose elastomer formulated for high temperature resistance in aliphatic hydrocarbons, mineral oils and greases, dilute acids and alcohols at low temperature, water up to 150°F, service temperature –20°F to + 275°F. Meets the requirements as required by API 6A and API 6D. This material meets the requirements of ASTM D2000 M2BG 910 A14 B14 EA14 EO14 EO34.

ASTM Designation	Original Properties	ASTM D2000 Specification Values
D2240	Hardness type A Durometer	90 +/- 5
D412	Tensile, psi (MPa), Minimum	1450 min.
D412	Elongation, % Minimum	70 min.
D412	Modulus, psi @ 50% Elongation	600 min.
	Specific Gravity	1.30 +/- .03
D513	**(A14) Heat Age, 70 HRS @ 100°C (212°F)**	
	Durometer Change, Points	+/- 15
	Tensile Strength Change, % Maximum	+/- 30
	Elongation Change, % Maximum	-50
D395 B	**(B14) Compression Set, 22 HRS @ 100°C (212°F)**	25 max.
D471	**(EA14) Water, 70 hours at 100°C (212°F)**	
	Durometer Change, Points	+/- 10
	Volume Change, %	+/- 15
D471	**100% Methanol, 24 hours at R.T.**	
	Durometer Change Points	+/- 10
	Tensile Change, % Maximum	- 25
	Elongation Change, % Maximum	- 25
	Volume Change, % Maximum	- 5 to + 10
D471	**Ethylene Glycol and Water, 70 hours @ 100°C (212°F)**	
	Durometer Change Points	+/- 10
	Tensile Change, % Maximum	- 25
	Elongation Change, % Maximum	- 25
	Volume Change, %	- 5 to + 15
D471	**(EO14) ASTM # 1 Oil, 70 hours @ 100°C (212°F)**	
	Durometer Change Points	- 5 to + 15
	Tensile Change, % Maximum	- 25
	Elongation change, % Maximum	- 45
	Change in Volume, %	- 10 to + 15
D471	**(EO34) IRM 903 Oil, 70 hours @ 100°C (212°F)**	
	Durometer Change, Points	- 10 to + 10
	Tensile Change, % Maximum	- 45
	Elongation Change, % Maximum	- 45
	Volume Change, %	0 to + 25

Approved Compounds: Wynn's 1929, Parker N1059-90