4700-90
90 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 M7BG 914 A14 B14 EA14 EF11 EF21 EO14 EO34.

ASTM Designation	Original Properties	ASTM D2000 Specification Values
D2240	Hardness type A Durometer	90 +/- 5
D412	Tensile, psi, Minimum	2300 min.
D412	Elongation, % Minimum	180 min.
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	**(EF11) Reference Fuel A, 70 hours at R.T.**	
	Durometer Change Points	+/- 10
	Tensile Change, % Maximum	- 25
	Elongation Change, % Maximum	- 25
	Volume Change, % Maximum	- 5 to + 10
D471	**(EF21) Reference Fuel B, 70 hours at R.T.**	
	Durometer Change Points	- 30 to 0
	Tensile Change, % Maximum	- 60
	Elongation Change, % Maximum	- 60
	Volume Change, %	0 to + 40
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 + 5
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