



MATERIAL PROPERTY DATA SHEET

N140-90 SULFUR CURED NBR

N140-90 is a high durometer Nitrile formula designed for high pressure sealing applications. This compound has a relatively high ACN content, making it exceptionally resistant to petroleum base oils and hydrocarbon fuels over a temperature range of -20F to +260F. N140-90 also demonstrates excellent tensile strength and abrasion resistance.

<u>ASTM D2000</u> <u>Designation</u>	<u>PHYSICAL PROPERTIES</u>	<u>REQUIREMENTS</u>	<u>TYPICAL</u> <u>RESULTS</u>
BG, CH	<u>ORIGINAL PROPERTIES</u>		
	Durometer, Shore A, D2240, pts	90±5	87
	Tensile, D412, MPa (psi), Minimum	10 (1450)	18.5 (2683)
	Elongation, D412, % Minimum	100	177
	Specific Gravity, g/cm ³	-	1.3
	Color	-	Black
	<u>HEAT RESISTANCE, D573, 70 HRS @ 100°C</u>		
	Durometer Change, Points	± 15	+3
	Tensile Strength Change, % Maximum	±30	+7
	Elongation Change, % Maximum	-50	-35
	<u>HEAT RESISTANCE, D865, 70 HRS @ 125°C</u>		
	Durometer Change, Points	+15	+3
	Tensile Strength Change, % Maximum	-25	+6
	Elongation Change, % Maximum	-50	-11
B14	<u>COMPRESSION SET, D395, 22 HRS @ 100°C (Solid Buttor</u>		
	Deflection, % Maximum	25	10
EA14	<u>WATER RESISTANCE, D471, 70 HRS @ 100°C</u>		
	Durometer Change, Points	+/-10	-3
	Volume Change, % Maximum	+/-15	+3
EF11	<u>FUEL A RESISTANCE, 70 HRS @ 23°C</u>		
	Durometer Change, Points	+/-10	-1
	Tensile Change, % Maximum	-25	-2
	Elongation Change, % Maximum	-25	+2
	Volume Change, %	+10 / -5	+1
EF21	<u>FUEL B RESISTANCE, 70 HRS @ 23°C</u>		
	Durometer Change, Points	0 / -30	-9
	Tensile Change, % Maximum	-60	-20
	Elongation Change, % Maximum	-60	-21
	Volume Change, % Maximum	+40 / 0	+24
EO14	<u>FLUID RESISTANCE, D471, IRM 901 OIL, 70 HRS @ 100°i</u>		
	Durometer Change, Points	±5	+3
	Tensile Change, % Maximum	-25	+14
	Elongation Change, % Maximum	-45	-6
	Volume Change, %	+5 / -10	-5
EO15	<u>FLUID RESISTANCE, IRM 901 OIL, 70 HRS @ 125°C</u>		
	Durometer Change, Points	+10 / -0	+4
	Tensile Change, % Maximum	-20	-4
	Elongation Change, % Maximum	-35	-26
	Volume Change, %	+5 / -15	-7



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EO34	<u>FLUID RESISTANCE, D471, IRM 903 OIL, 70 HRS @ 100°</u>		
	Durometer Change, Points	+5 / -10	-5
	Tensile Change, % Maximum	-45	+6
	Elongation Change, % Maximum	-45	+7
	Volume Change, % Maximum	+25 / 0	+15
EO35	<u>FLUID RESISTANCE, IRM 903 OIL, 70 HRS @ 125°C</u>		
	Durometer Change, Points	+/-10	-4
	Tensile Change, % Maximum	-15	+6
	Elongation Change, % Maximum	-30	-19
	Volume Change, % Maximum	+25 / -0	+8
Z1 (F15)	<u>LOW-TEMP RESISTANCE, D2137, METHOD C, 9.3.3</u>		
	Nonbrittle after 3 min at -25°C	Pass	Pass
	<u>LOW TEMPERATURE RETRACTION</u>		
	TR10, Degrees °C	-	-20

SPECIFICATIONS MET

ASTM D2000 M7BG 910 B14 EA14 EF11 EF21 EO14 EO34 Z1

ASTM D2000 M4CH 910 B14 EO15 EO35 Z1

REACH SVHC 209

RoHS 2015/863

California Proposition 65*

Dodd-Frank Consumer Protection Act: No conflict materials (Tantalum, Tin, Tungsten & Gold)

*This compound may contain trace amounts of these impurities included in California Prop 65:

Benz[a]anthracene 56-55-3

Benzo[b]fluoranthene 205-99-2

Benzo[j]fluoranthene 205-82-3

Benzo[k]fluoranthene 207-08-9

Benzo[a]pyrene 50-32-8

Chrysene 218-01-9

Dibenz[a,h]anthracene 53-70-3