

Specification: ASTM D2000 M2BG714 A14 B14 EA14 EF11 EF21 EO14 EO34 F17

Cure System: Sulphur

Recommended Service Temperature: -40 °F to 212 °F (-40 °C to 100 °C)

NOTE - All testing done on slabs and buttons. Material formerly known as N70R.

Original Properties	Specification	N70
Hardness, Shore A	70 +/- 5	68
Tensile Strength, psi	2030 (min)	2294
Ultimate Elongation, %	250 (min)	413
Specific Gravity		1.235
Color		Black
Heat Resistance - A14, ASTM D 573 (70 hrs @ 100 °C)		
Hardness Change, points	+/- 15	+6
Tensile Strength Change, %	+/- 30	-11
Ultimate Elongation Change, %	-50 (max)	-23
Compression Set - B14, ASTM D 395 Method B (22 hrs @ 100 °C)		
Permanent Set, %	25 (max)	12
Fluid Resistance, Water - EA14, ASTM D 471 (70 hrs @ 100 °C)		
Hardness Change, points	+/- 10	-4
Volume Change, %	+/- 15	+11
Fluid Resistance, ASTM Fuel A - EF11, ASTM D 471 (70 hrs @ 23 °C)		
Hardness Change, points	+/- 10	-3
Tensile Strength Change, %	-25 (max)	-13
Ultimate Elongation Change, %	-25 (max)	-22
Volume Change, %	-5 to +10	+3
Fluid Resistance, ASTM Fuel B - EF21, ASTM D 471 (70 hrs @ 23 °C)		
Hardness Change, points	-30 to 0	-14
Tensile Strength Change, %	-60 (max)	-36
Ultimate Elongation Change, %	-60 (max)	-32
Volume Change, %	0 to +40	+22
Fluid Resistance, ASTM #1 Oil - EO14, ASTM D 471 (70 hrs @ 100 °C)		
Hardness Change, points	-5 to +10	+6
Tensile Strength Change, %	-25 (max)	+6
Ultimate Elongation Change, %	-45 (max)	-20
Volume Change, %	-10 to +5	-9
Fluid Resistance, IRM 903 Oil - EO34, ASTM D 471 (70 hrs @ 100 °C)		
Hardness Change, points	-10 to +5	-6
Tensile Strength Change, %	-45 (max)	-14
Ultimate Elongation Change, %	-45 (max)	-25
Volume Change, %	0 to +25	+5

Low Temperature Resistance - F17, ASTM D 2137 Method A, 9.3.2

(Non-brittle after 3 min @ -40 °C)

Pass

Pass

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DICHTOMATIK
AMERICAS

1087 Park Place
Shakopee, MN 55379
800-328-2840
www.dichtomatik.us