

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	70
Tensile Strength, psi	2030 (min)	2401
Ultimate Elongation, %	250 (min)	407
Specific Gravity		1.231
Color		Black
<b>Heat Resistance - A14 , ASTM D 573 (70 hrs @ 100 °C)</b>		
Hardness Change, points	±15	+5
Tensile Strength Change, %	±30	+6.2
Elongation Change, %	-50 (max)	-18.2
<b>Compression Set, % - B14, ASTM D 395 Method B (22 hrs @ 100 °C)</b>		
Permanent Set, %	25 (max)	10.1
<b>Fluid Resistance, Water - EA14, ASTM D471 (70 hrs @ 100 °C)</b>		
Hardness Change, points	±10	-3
Volume Change, %	±15	+5.1
<b>Fluid Resistance, ASTM Fuel A - EF11, ASTM D 471 (70 hrs @ 23 °C)</b>		
Hardness Change, points	±10	-2
Tensile Strength Change, %	-25 (max)	+2.1
Elongation Change, %	-25 (max)	-3.6
Volume Change, %	-5 to +10	+1.1
<b>Fluid Resistance, ASTM Fuel B - EF21, ASTM D 471 (70 hrs @ 23 °C)</b>		
Hardness Change, points	-30 to 0	-21
Tensile Strength Change, %	-60 (max)	-37.6
Elongation Change, %	-60 (max)	-30.1
Volume Change, %	0 to +40	+26.7
<b>Fluid Resistance, IRM 901 - EO14, ASTM D 471 (70 hrs @ 100 °C)</b>		
Hardness Change, points	-5 to +10	+3
Tensile Strength Change, %	-25 (max)	+9.6
Elongation Change, %	-45 (max)	-14.3
Volume Change, %	-10 to +5	-3.7
<b>Fluid Resistance, IRM 903 - EO34, ASTM D 471 (70 hrs @ 100 °C)</b>		
Hardness Change, points	-10 to +5	-4
Tensile Strength Change, %	-45 (max)	+0.7
Elongation Change, %	-45 (max)	-12.3
Volume Change, %	0 to +25	+6.5
<b>Low Temperature Resistance - F17, ASTM D 2137 Methad A, 9.3.2</b>		
(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