



Engineered Seal Products  
 5920 Dry Creek Ln NE  
 Cedar Rapids, IA 52402  
[www.espint.com](http://www.espint.com)

# N8008

Revision: A

**MATERIAL:** NBR  
**COMPOUND:** N8008  
**SPECIFICATION:** ASTM D2000 M2BG708 A14 B14 B34 EA14 EF11 EF21 Z1  
**COLOR:** BLACK  
**CERTIFICATIONS:** UL RECOGNIZED  
**ADDITIONAL NOTES:** SULFUR CURED

Spec	<u>Original Physical and Mechanical Properties</u>	<u>Requirements</u>	<u>Result</u>
	Hardness, Shore A Pts, ASTM D 2240	70±5	72
	Tensile Strength, MPa (psi) min., ASTM D 412	8.0 (1160)	11.2 (1624)
	Ultimate Elongation, % min., ASTM D 412	200	298
	Modulus @ 100%, MPa (psi), ASTM D 412	-	5.12 (742)
	Density, Mg/m <sup>3</sup>	-	1.35
<b>A14</b>	<b><u>Heat Resistance (ASTM D 573) 70 h @ 100°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	±15	5
	Change in Tensile, %	±30	12
	Change in Elongation, % max.	-50	-15
	Change in Weight, %	-	-0.6
<b>B14</b>	<b><u>Compression Set (ASTM D 395, Method B) 22 h @ 100°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	% of Original Deflection, max.	25	10
<b>B34</b>	<b><u>Compression Set (ASTM D 395, Method B) 22 h @ 100°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	% of Original Deflection, max.	25	23
<b>EA14</b>	<b><u>Water Resistance (ASTM D 471) 70 h @ 100°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	±10	-2
	Change in Tensile, %	-	13
	Change in Elongation, %	-	-7
	Change in Volume, %	±15	3.5

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above



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<b>EF11</b>	<b><u>Fluid Resistance (ASTM D 471) 70 h in ASTM Fuel A @ 23°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	±10	1
	Change in Tensile, % max.	-25	0
	Change in Elongation, % max.	-25	6
	Change in Volume, %	-5~+10	-1.2
<b>EF21</b>	<b><u>Fluid Resistance (ASTM D 471) 70 h in ASTM Fuel B @ 23°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	-30~0	-12
	Change in Tensile, % max.	-60	-15
	Change in Elongation, % max.	-60	-16
	Change in Volume, %	0~+40	12.4
<b>Z1</b>	<b><u>Low Temperature Retraction (ASTM D 1329)</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	TR10 Temperature, °C	-	-27.1

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above