



ESP International
5920 Dry Creek Ln NE
Cedar Rapids, IA 52402
www.espint.com

1001-N70

Revision: A

CONTACT US

MATERIAL: NBR
COMPOUND: 1001-N70
SPECIFICATION: ASTM D2000 M2BG710 A14 B14 EA14 EF11 EF21 EO14 EO34
COLOR: Black
CERTIFICATIONS: None

Spec	<u>Original Physical Properties</u>	<u>Requirements</u>	<u>Result</u>
	Hardness, Shore A Pts	70±5	70
	Tensile Strength, Mpa (psi) min.	10 (1450)	15.6 (2272)
	Ultimate Elongation, % min.	250	297
A14	<u>Heat Resistance (ASTM D 573) 70 Hrs @ 100 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts		+7
	Change in Tensile, %		+11.2
	Change in Elongation, % max		-20
B14	<u>Compression Set (ASTM D 395B) 22 Hrs @ 100 C</u>	<u>Requirements</u>	<u>Result</u>
	% of Original Deflection, max.	25	16.7
EA14	<u>Water resistance (ASTM D471) 70 Hrs @ 100 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±10	-9
	Volume Change, %	±15	+10.4
EF11	<u>Fluid resistance (ASTM D471) 70 Hrs in Reference Fuel A @ 23 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±10	-3
	Change in Tensile, %	-25	-14
	Change in Elongation, % max	-25	-14
	Volume Change, %	-5~+10	+3
EF21	<u>Fluid resistance (ASTM D471) 70 Hrs in Reference Fuel B @ 23 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	0~-30	-20
	Change in Tensile, %	-60	-49
	Change in Elongation, % max	-60	-44
	Volume Change, %	0~+40	+34



ESP International
5920 Dry Creek Ln NE
Cedar Rapids, IA 52402
www.espint.com

1001-N70

Revision: A

EO14	<u>Oil Resistance (ASTM D 471) 70 Hrs in IRM901 Oil @ 100 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-5~+10	+10
	Change in Tensile, %	-25	+21.3
	Change in Elongation, % max	-45	-12.8
	Volume Change, %	-10~+5	-10
EO34	<u>Oil Resistance (ASTM D 471) 70 Hrs in IRM903 Oil @ 100 C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-10~+5	-5
	Change in Tensile, %	-45	-27.5
	Change in Elongation, % max	-45	-39
	Volume Change, %	0~+25	+7