PRESS-SEAL GASKET CORPORATION

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Providing products and services that protect our planet's clean water supply

January 3, 2012

MATERIAL SPECIFICATION NEOPRENE (Chloroprene) (CR) RUBBER

Requirements for Rubber Gaskets:

Rubber gaskets shall be Neoprene conforming to the material and performance requirements of ASTM C 361 for Oil Resistant Gaskets, ASTM C 1619 Class B, ASTM C 443 for Oil Resistant Gaskets, and CSA A257.3-03 for Oil-Resistant Rubber Gaskets. The compound shall contain not less than 50% Neoprene polymer by volume.

Tests and preparation of the Neoprene material shall be in accordance with the appropriate ASTM Test Methods and shall meet the following requirements:

	Tensile strength (min)	1500 psi	ASTM D 412
	Longation at break (min)	350%	ASTM D 412
	Hardness (Shore Durometer A)	45 +/-5	ASTM D 2240
	Compression set (max)	20%	ATSM D 395 Method B
Accelerated Aging:			
Air oven aging 70 hours @ 212º F (100º C)			
Test specimen shall be prepared in accordance with ASTM D 573.			
	Tensile change (max)	-20%	
	Elongation change (max)	-40%	
	Hardness change (max)	+15%	
	Hardhood change (max)	11070	
Oil Resistance Test: Test specimen 70 hours @ 212º F (100º C) in ASTM D 471 No. 3 Oil			
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	Tensile change (max)	-60%	
	Elongation change (max)	-30%	
	Volume change (max)	+80%	
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	Ozone resistance	no cracks	ASTM D 1149
Thermal Properties:			
	Continuous Temperature Resistance (max) Intermittent Temperature Resistance (max) Steam Resistance (300° F/150° C)		225º F (107º C) 300º F (150º C) Poor

Neoprene compounds are generally resistant to moderate Chemicals and Acids, Ozone, Oils, Fats, and Greases. They are attacked by strong Oxidizing Agents, Esters, Ketones, Chlorinated-, Aromatic-, and Nitro-Hydrocarbons.

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