



Effective 3/12/12

3-Flow Sealing/Isolating Gaskets

Material Physical Property Specifications: Common for POINTGUARD™, COREGUARD™, FLOWGUARD™, FLATEMATE™ Gasket Retainers.

ASTM	Test Method	G10	G11	Phenolic	Rubber Faced Phenolic
D149	Dielectric Strength Volts/Mil Short Time	750-800	550	500	500
D695	Compressive Strength (psi)	65,000	63,000	25,000	25,000
D570	Water Absorption (%)	0.05	0.1	1.6	1.6
D790	Flexural Strength (psi)	65,000	60,000	22,500	22,500
D256	IZOD Impact Strength (Ft-Lbs/Inch)	14.00	12.00	1.2	1.2
D638	Tensile Strength (psi)	50,000	42,000	20,000	20,000
D732	Shear Strength (psi)	21,000	21,000	10,000	10,000
D952	* Bond Strength (lb)	2,600	2,200	1,500	1,500
	Temperature - Operating	Cryogenic to +302°F (+150°C)	-100 to +392°F (- 73 to +200°C)	-65 to +220°F (-54 to +104°C)	-65 to +175°F (- 54 to +79°C)

*= This indicates the bond strength of the actual sheet material for the POINTGUARD, COREGUARD and FLOWGUARD; excludes the steel core for the COREGUARD.

3-Flow Sealing/Isolating Gaskets

Temperature Limit Specifications: Common for POINTGUARD™, COREGUARD™, FLOWGUARD™ Seal Elements.

Seals	Temperature - Operating
Nitrile	-40°F (-40°C) to +250°F (+121°C)
Viton	-20°F (-29°C) to +392°F (+200°C)
Teflon	Cryogenic to +525°F (+274°C)
EPDM	-65°F (-54°C) to +250°F (+121°C)
Teflon (Spring)	Cryogenic to +525°F (+274°C)
Silicone O-Ring	-75°F (-115°C) to +392°F (+200°C)



**3-Flow Sleeve
Material Physical Property Specifications:**

ASTM	Test Method	Mylar	G10	Nomex
D149	Dielectric Strength Volts/Mil Short Time	1100	750-800	600
D570	Water Absorption (%)	0.8	0.05	7.0
D790	Flexural Strength (psi)	13,000	65,000	18,000
	Cut Through Resistance	LOW	HIGH	LOW
	Temperature - Operating	-75 to +302°F (-59 to +150°C)	Cryogenic to +302°F (+150°C)	-65 to +450°F (-54 to +232°C)

**3-Flow Washer
Material Physical Property Specifications**

ASTM	Test Method	G10	G11	Phenolic	Steel (ZP)	Steel (HC)	G3
D149	Dielectric Strength Volts/Mil Short Time	750-800	550	500	N/A	800	500
D695	Compressive Strength (psi)	65,000	63,000	25,000	>65,000	>65,000	55,000
D570	Water Absorption (%)	0.05	0.1	1.6	N/A	0.3	1.0
	Temperature - Operating	Cryogenic to +302°F (+150°C)	-100 to +392°F (-73 to +200°C)	-65 to +220°F (-54 to +104°C)	Cryogenic to +500°F (+260°C)	Cryogenic to +302°F (+150°C)	-100 to +392°F (-73 to +200°C)

(ZP) = Zinc Plated (HC) = Harden Steel – Isolation Coating