

INTEGRA Z[®]

CRYOGENIC ISOLATION GASKET KITS



The Integra Z gasket kit is comprised of EC-5000 material for gaskets and washers, developed and used by NASA for absolute zero operating temperature -273 °C / -459 °F. Sleeves are available in G-10 or optional Nomex materials. Metal backup washers are available in stainless steel.

Gasket/Washer Material Specifications

EC-5000 Material

Compressive Strength	65,000 PSI
Dielectric Strength	670VPM
Water Absorption	0.10%
Flexural Strength	75,000 / 65,000 PSI
Tensile Strength	45,000 / 38,000 PSI
Shear Strength	22,000 lb.

G-10 Standard Sleeve Material Specifications

NEMA Grade

Compression Glass-Reinforced Epoxy Laminate Material:

Compressive Strength	66,000 PSI
Dielectric Strength	800 VPM
Max. Continuous Operating Temp	302° F (150° C)
Water Absorption	0.04%
Flexural Strength	65,000 PSI
Tensile Strength	51,000 PSI
Bond Strength	2,600 lb.
Shear Strength	22,000 lb.

Nomex Optional Sleeve Material Specifications

Spiral-wound Tubing with Generally Fair Resistance to Crushing, Breaking, and Thread Pinch:

Dielectric Strength	550 VPM
Max. Continuous Operating Temp	450° F (232° C)

¹This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.



ISO-9001:2015 CERTIFIED COMPANY- FM537405

P.O. Box 60399 • Lafayette, Louisiana 70596-0399
 800-315-6009 • 337-233-6116 • FAX 337-232-3860
 e-mail: sales@apsonline.com • Website: www.apsonline.com