

# Integra Z®

## Cryogenic Isolating Gasket



**ADVANCE**  
PRODUCTS & SYSTEMS, LLC



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 Specification

EC-5000 Material	
Compressive Strength	65,000 PSI
Dielectric Strength	670 VPM
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 Specification

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

Dielectric Strength	65,000 PSI
Max Continuous Operating Temperature	450° F (232° C)



**FOR MORE INFORMATION  
PLEASE CONTACT US  
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