Integra Z®

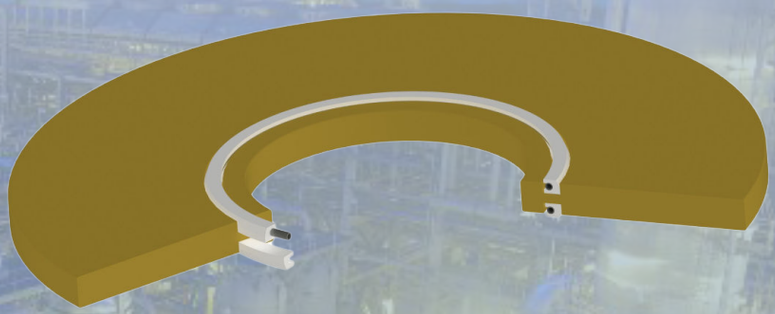
Cryogenic Isolating Gasket

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
1-800-315-6009

bsi. ISO 9001:2015 Quality Management

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