



Dielectric Polymer Composite Coating HART Dielectric Insulating Unions

HART Industrial Dielectric O-Ring Unions are engineered to provide the most effective and efficient method of preventing electrolytic deterioration. The Union design provides insulation against galvanic corrosion and also breaks current flow eliminating any stray corrosion. The thermo-baked epoxy polymer coating provides >600 volts/mil dielectric resistance. All HART Unions are made in the USA!

Coating Features (ASSE Standard #1079-2005):

- Excellent resistance to wear, abrasion, and shipping
- Provides resistance to rust/corrosion per ASTM B-117 Salt Fog Tests.
- Operating temperatures from -425F to 255C
- Excellent resistance to ultraviolet light
- Superior adhesion to a variety of substrates including Carbon Steel, Brass, Copper, Stainless Steel, Monel, and Titanium.



Fluid/Solvent Resistance (ASTM D1308-79):

- HCl (pH2) Hydrochloric Acid (room temp)
No Effect
- NaOH (50%) Sodium Hydroxide (room temp)
No Effect
- MEK Methyl Ethyl Ketone (room temp)
No Effect
- Salt Spray (ASTM B-117)
>500 hours- No Blistering
- Castrol Hydraulic Fluid at 200F
Gloss decrease, no loss of coating integrity
- Ethylene Glycol at room temperature
No Effect



Physical Properties:

- Typical Coating Thickness: **3-6 mil**
- Dielectric Strength: **>600 volts/mil**
- Pencil Hardness: **H (ASTM B3363)**
- Breakdown Voltage: **>20,000 volts at 650 μm (ASTM D149)**
- Volume Resistivity: **1.26 x 10¹⁶ ohm-cm (ASTM D257)**
- Gloss Finish: **High**



Questions? Call us at 1-800-769-0503. Our Customer Service and Engineering Teams are available to assist you with any needs!