

ARABOND 2000 EPOXY NEMA G10 BONDED STEEL

High strength dielectric sheet with steel bonding-heavy duty



Applications & preparations:

Industrial and electrical conductivity arrestor used between high pressure rating flanges and electrical equipment to prevent electrolytic and electrical current flow, supports corrosion resistance and equipment safety. High quality Glass Fiber Epoxy (NEMA G10 or G11 grade) fiber layers are precisely warmed, glued and bonded on stainless steel plates of any grades to form a sandwich panel. This panel give high electric resistivity and high strength at the same time. Various colors and surface finishing's can be achieved as per requirements and codes of applications.

G10 / G11 Recommended for

Aliphatic and Aromatic Hydrocarbons
 Transformer Oils
 Sodium Hydroxide 15%
 Sulphuric Acid 3% (G11)
 Sulphuric Acid 30% (G11)-Fairly at room Temp.
 Alcohol, Ketons, Benxol, Toluol
 Cryogenics

Not Recommended for

Anhydrous Liquid Ammonia
 Conc. H₂SO₄
 20% HNO₃, H₂SO₄, NaOH

Operating Conditions Pure G10

Minimum Temperature (°C/°F)
 Maximum Temperature (°C/°F)

Color: Light Green, Black, Brown

-156/-250
 140/284

Table 1. Physical Properties of NEMA G10

Specific Gravity	ASTM D 792	1.8 g/cc
Water Absorption (max)	ASTM D 570 (24 hrs)	0.1%
Hardness Rockwell M	ASTM D 785	110
Compressive Strength	ASTM D 695	60000 psi
Tensile Strength	ASTM D 638 (LW)	50000 psi
Flexural Strength	ASTM D 790	65000 psi
IZOD Impact Strength LW	ASTM D 256	12 ft-lb/in
Shear Strength	ASTM D 732	21755 psi
Cold recovery	ASTM F 36	50-70%
Chemical Resistance		pH 0-14
Dielectric Strength (1.6mm Thk)	ASTM D 149	960 volts/mil
Volume resistivity		6 x 10 ⁶ Mega ohm-cm