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Nickel Coated Glass Microspheres

GL-0261

DATA SHEET

Appearance

Solid borosilicate glass microspheres with a metallic nickel coating.

Chemical Composition (by weight)

A. Glass

Silica (SiO₂) 70~80%

Boron oxide (B₂O₃) 10~15%

Sodium oxide (Na₂O) 5~10%

Alumium oxide (Al₂O₃) 2~5%

B. Coating

Nickel (Ni) 90~95%

Phosphorus (P) 2~10%

Physical Properties

Specific Gravity 2.2~2.3 (g/cm³)

Bulk Density of Dry Beads 1.2 g per cm³ (71 lbs/ft³)

pH in water @ 25°C 7.0

Softening Temperature 830°C

Conductivity (ohm-cm)⁻¹ 0~1% of pure nickel

Coefficient of Thermal Expansion.. 32 x 10⁻⁷/° C (30-300° C)

Approximate Coating Thickness.... 600-1000 angstroms

Applications

Typical applications of GL-0261 beads include: conductive filler for plastic, pigment, and etc...