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Nickel Coated Glass Microspheres

GL-0262

DATA SHEET

Appearance

Solid soda-lime glass microspheres with metallic nickel coating.

Chemical Composition (by weight)

A. Glass

Silica (SiO ₂)	69~72%
Aluminum oxide (Al ₂ O ₃)	1~4%
Calcium oxide (CaO)	9~12%
Magnesium oxide (MgO)	1~3%
Sodium oxide (Na ₂ O).....	13~17%
Iron Oxide (Fe ₂ O ₃)	<0.3%

B. Coating

Nickel (Ni)	90~95%
Phosphorus (P)	2~10%

Physical Properties

Specific Gravity	2.5 (g/cm ³)
Bulk Density of Dry Beads.....	1.3 g per cm ³ (77 lbs/ft ³)
Softening Temperature	650°C
Coefficient of Thermal Expansion..	90 x 10 ⁻⁷ /°C (30-300° C)
Approximate Coating Thickness....	600-1000 angstroms
Conductivity (ohm-cm) ⁻¹	0~1% of pure nickel

Applications:

Typical applications of GL0262 beads including: conductive filler for plastic, pigment, and etc...