

PRODUCT DATA SHEET

P2453BTA GLASS MICROSPHERES

PHYSICAL DATA

Component Materials:	Glass, Oxide with aluminum coating
Specific Gravity:	4.49 +/- 0.01
Index of Refraction:	1.90 – 1.92
Mean Diameter:	40 - 50 microns
Maximum Diameter:	90 - 100 microns
Appearance & Odor:	Grey powder, 55 – 65 on Gardner Scale

PRODUCT DESCRIPTION

P2453BTA are solid, barium titanate glass microspheres with a 40 - 50 micron mean diameter, a tight distribution, and a top size of 100 microns that have been hemi spherically coated with a thin aluminum shell. In bulk, they appear to be a grey powder. Under a microscope, each individual micro particle can be seen to be a half coated sphere. Produced under strict quality controls, these spheres are made from a barium titanate glass that has a refractive index of 1.91, a specific gravity of 4.49, moh hardness higher than steel, a crush point of 30,000 psi and a degree of roundness in excess of 80%.

APPLICATION BENEFITS

P2453BTA is a retroreflective pigment that adds value visually, physically and geometrically to paints, coatings and plastic.

Visually, P2453BTA serves as a retro reflective satellite dish that efficiently returns light straight back to the light source.

When blended into transparent and low gloss inks or coatings, P2453BTA can be used to create cost effective retro reflective formulations that are color friendly, cost effective and easy to apply.

Physically, P2453BTA improves abrasion resistance and impact modification through its hardness and adhesion through its titanate chemistry.

Geometrically, P2453BTA spheres help improve product flow with even dispersion.

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Distributed by:



449 N. Hope Ave, Santa Barbara, CA 93110, USA

info@cospheric.com

Phone: +1 (805) 687-3747

www.cospheric-microspheres.com