



## Britesphere 247

### Opta Minerals your source for Construction Products:

Barco Silica Sand  
 Barco Sand 55  
 Bentonite Clay  
 Britesphere Road Beads  
 Britesphere 247  
 Britesphere 247 Lite  
 Britesphere OPSS 1750  
 Coloured Sand  
 Golf Sands  
 Temisca Silica

### Contact Us

Our sales team is ready to help you to determine the right product for your job.  
 For more information please call us:  
 Toll-free: 888-689-6661  
 Tel: 519-720-9694  
 E-mail: [info@optaminerals.com](mailto:info@optaminerals.com)  
 Visit: [www.optaminerals.com](http://www.optaminerals.com)

**Britesphere 247** meets or exceeds AASHTO 247 specification for pavement marking beads. Britesphere 247 beads are transparent, clean, colorless glass, smooth and spherically shaped, free from milkiness, pits, or excessive air bubbles. Britesphere 247 beads do not exhibit characteristics of toxicity, relative to heavy metals, when tested in accordance with EPA No 40, CFR 261.24.

**Britesphere 247** also meets the gradation requirements as specified by AASHTO 247 and FP-03 for large beads, as illustrated in the following table:

| Sieve |        | Mass Percent Passing |         |         |        |
|-------|--------|----------------------|---------|---------|--------|
| Mesh  | Micron | Type I               | Type IM | Type II | Type 4 |
| 10    | 2000   | -                    | -       | -       | 100    |
| 12    | 1700   | -                    | -       | -       | 95-100 |
| 14    | 1400   | -                    | -       | -       | 80-95  |
| 16    | 1180   | 100                  | 100     | -       | 10-40  |
| 18    | 1000   | -                    | -       | -       | 0-5    |
| 20    | 850    | 90-100               | 90-97   | -       | 0-2    |
| 30    | 600    | 75-95                | 50-75   | 100     | -      |
| 40    | 425    | -                    | 15-45   | 90-100  | -      |
| 50    | 300    | 15-35                | 0-15    | 50-75   | -      |
| 80    | 177    | -                    | 0-5     | 0-5     | -      |
| 100   | 150    | 0-5                  | -       | -       | -      |

The AASHTO 247 specification adheres to the following standards for testing:

#### ASTM Standards

- D 75 Standard practice for sampling aggregates
- D 1214 Test method of Sieve Analysis of Glass Spheres
- D 1155 Test method for roundness of glass spheres
- D 1213 Test method for Crushing Resistance of glass spheres
- E 105 Standard practice for probability sampling of materials
- E 1617 Standard practice for reporting particle size characterization data

#### Federal Standards

**No 40, CFR 261.24** Maximum concentration of contaminants for toxicity characteristic.

#### ADVANTAGES OF BRITESPHERE 247

- No characteristics of toxicity
- Exceeds min. 75% roundness

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**ADVANTAGES OF BRITESPHERE 247**

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- All Britesphere road marking beads (Type I, II, III and IV) are available in:
- Non- coated
- Silicone coated
- Silane coated
- Silicone/Silane (dual) coated

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**ADVANTAGES OF BRITESPHERE 247**

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- Refractive index  $\geq 1.503$
- Consistent quality to guarantee excellent retro-reflective performance
- All Britesphere Glass Beads for Road Marking paints are manufactured and tested according to ASTM Specifications

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**CHARACTERISTICS**

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|                  |  |
|------------------|--|
| Colour:          | Colourless and transparent, no visible bubbles and impurities. |
| Density          | 2.4 – 2.6 g/cm <sup>3</sup>                                    |
| Grain Shape      | Spherical bead, guaranteed 75% roundness, actual Average 85%   |
| Refractive Index | $\geq 1.50$  |

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**PACKAGING**

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55 lb paper bags, 2200 lb (40 bags) Super Sacs  
Custom screened and larger sizes available upon request.