

## High refractive index glass bead

### 1) Glass Bead with Refractive Index 1.93Nd

1.93Nd glass bead is used for “Exposed-Lens” type retro-reflective articles(refer to enclosed glossary), such as open-type reflective sheets, reflective fabric. reflective tape, reflective yarn and “En capsulated-Lens” type retro-reflective articles(refer to enclosed glossary), such as high intensity grade reflective sheet.

#### I. Technical Data

|                  |   |
|------------------|---|
| Composition      | TiO <sub>2</sub> -BaO-SiO <sub>2</sub> GLASS  |
| Refractive Index | 1.93±0.01Nd                                   |
| Specific Gravity | 4.1±0.2 g/cm <sup>3</sup>                     |
| Color            | White   |
| Form             | Fine spheres powder                           |
| Size             | 10-100um(can be provided by specific request) |
| Roundness        | ≥95%  |
| Opacity          | ≤1%   |

**II. Package:** 25kg / iron barrel (Volume: 28cm x 23cm), lined with two plastic bags, and one dryer placed in. Net Weight: 25kg/barrel Gross Weight: 26.7kg/barrel

**III.Storage:** Dry and sheltered



### 2) Glass Bead with Refractive Index 2.2<sup>ND</sup>

2.2nd glass bead is used for “Enclosed-Lens” type retro-reflective articles(refer to enclosed glossary), such as engineering grade sheet and super engineering grade sheet which contribute to road signs and traffic safety .

#### I. Technical Data

|                  |   |
|------------------|---|
| Composition      | TiO <sub>2</sub> -BaO-ZnO GLASS               |
| Refractive Index | 2.2±0.1Nd                                     |
| Specific Gravity | 4.5±0.2 g/cm <sup>3</sup>                     |
| Color            | White   |
| Form             | Fine spheres powder                           |
| Size             | 20-100um(can be provided by specific request) |
| Roundness        | ≥95%  |
| Opacity          | ≤5%   |



**II. Package:** 25kg / iron barrel (Volume: 28cm x 23cm), lined with two plastic bags, and one dryer placed in. Net Weight: 25kg/barrel Gross Weight: 26.7kg/barrel

**III.Storage:** Dry and sheltered

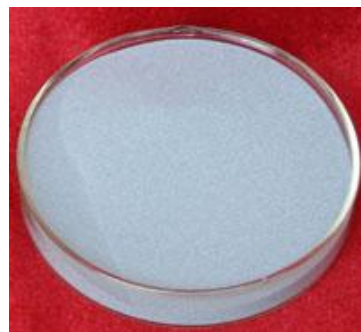


### 3) Aluminum Coated Glass Bead with Refractive Index 1.93ND

Aluminum coated glass bead is used for road signs , traffic safety goods and reflective printing ink ,screen printing etc.

#### I. Technical Data

|                  |  |
|------------------|--|
| Composition      | TiO <sub>2</sub> -BaO-SiO <sub>2</sub> GLASS |
| Refractive Index | 1.93±0.01Nd                                  |
| Specific Gravity | 4.1±0.2 g/cm <sup>3</sup>                    |
| Color            | Silver grey                                  |
| Form             | Fine spheres Semi-coated with aluminum       |
| Size             | 25-38um;30-45um; 40-55um; 50-75um            |



**II. Package:** 25kg / iron barrel (Volume: 28cm x 23cm), lined with two plastic bags, and one dryer placed in. Net Weight: 25kg/barrel Gross Weight: 26.7kg/barrel

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**III.Storage:** Dry and sheltered



Remarks:

ND: index of refraction

Al : Aluminum

**Applications:**

Light reflection films, advertising boards, airplane runways, municipal construction, traffic safety projects, etc.

Downstream products like reflecting waistcoat, reflecting films, etc. may be also provided upon request including OEM manufacturing.