

## Potters Industries A-Series P-0040 Soda-Lime Silica Technical Quality Solid Glass Spheres

Category : Ceramic , Glass

**Material Notes:**

Technical Quality, A-Series glass spheres are used to reduce particle size in coatings and inks. Glass Spheres used in oil well drilling improve lubrication and overall efficiencies of down hole oil drilling. Information provided by Potters Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Potters-Industries-A-Series-P-0040-Soda-Lime-Silica-Technical-Quality-Solid-Glass-Spheres.php](http://www.lookpolymers.com/polymer_Potters-Industries-A-Series-P-0040-Soda-Lime-Silica-Technical-Quality-Solid-Glass-Spheres.php)

| Physical Properties | Metric      | English                   | Comments |
|---------------------|-------------|---------------------------|----------|
| Bulk Density        | 1.53 g/cc   | 0.0554 lb/in <sup>3</sup> |          |
| Density             | 2.50 g/cc   | 0.0903 lb/in <sup>3</sup> |          |
| Particle Size       | <= 100 µm   | <= 100 µm                 |          |
| Particle Mesh Size  | >= 140 Mesh | >= 140 Mesh               |          |

| Mechanical Properties   | Metric         | English           | Comments           |
|-------------------------|----------------|-------------------|--------------------|
| Hardness, Knoop         | 515            | 515               | kg/mm <sup>2</sup> |
|                         | @Load 0.100 kg | @Load 0.221 lb    |                    |
| Hardness, Mohs          | 5.0 - 6.0      | 5.0 - 6.0         |                    |
| Compressive Strength    | 96.5 - 248 MPa | 14000 - 36000 psi |                    |
| Coefficient of Friction | 0.90 - 1.0     | 0.90 - 1.0        |                    |

| Optical Properties | Metric      | English     | Comments |
|--------------------|-------------|-------------|----------|
| Refractive Index   | 1.51 - 1.52 | 1.51 - 1.52 |          |

| Descriptive Properties  | Value     | Comments |
|-------------------------|-----------|----------|
| % Round                 | 90        |          |
| Free Silica Content (%) | 0         |          |
| Shape                   | spherical |          |

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