

## Novum Glass Solid Soda-lime Industrial Series Glass Microspheres

Category : Ceramic , Glass

### Material Notes:

Solid soda-lime glass microspheres in colorless powder form. Industrial Series Microspheres are solid glass microspheres (also referred to as soda lime glass beads, glass spheres, or microbeads) used to improve product performance. Benefits include improved hardness, scratch resistance, texture, friction reduction, thermal properties, reduce shrinkage, cost reduction, reflective surface, gap control, improved packing, and product flow. Information provided by Novum Glass, LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Novum-Glass-Solid-Soda-lime-Industrial-Series-Glass-Microspheres.php](http://www.lookpolymers.com/polymer_Novum-Glass-Solid-Soda-lime-Industrial-Series-Glass-Microspheres.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.40 - 2.60 g/cc	2.40 - 2.60 g/cc	

Mechanical Properties	Metric	English	Comments
Compressive Strength	276 MPa	40000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 30.0 - 300 $^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 86.0 - 572 $^\circ\text{F}$	
Softening Point	650 $^\circ\text{C}$	1200 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.50 - 1.52	1.50 - 1.52	n<sub>D</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	0.0 - 5 %	0.0 - 5 %	
CaO	6 - 15 %	6 - 15 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1 %	<= 1 %	
MgO	1 - 5 %	1 - 5 %	
Na <sub>2</sub> O	10 - 20 %	10 - 20 %	
SiO <sub>2</sub>	67 - 75 %	67 - 75 %	

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