



ENGINEERED GLASS MATERIALS DIVISION

HOLLOW MICROSPHERES

SPHERICEL[®] TYPICAL PRODUCT CHARACTERISTICS¹

Composition:	Fused Borosilicate Glass (ASTM C169)
Shape:	Hollow non-porous microspheres
Color:	White (min. 90.0 L value on dry powder)
Hardness:	6 Moh's scale
Alkalinity:	Max 0.5 meq/g (ASTM D3100)
Loss on Drying:	Max. 0.5 weight % (10 min. @ 250°F)

Properties	SPHERICEL [®] Product Grades				
	110P8	60P18	45P25	34P30	25P45
Density ² , g/cc	1.10 ± 0.05	0.60 ± 0.05	0.45 ± 0.05	0.34 ± 0.05	0.25 ± 0.02
Bulk Density ³ , g/cc	0.49	0.32	0.26	0.22	0.14
Maximum Working Pressure, psi	10,000	8,000	4,000	3,000	750
Size Distribution ⁴ (µm)					
10%	5	9	12	20	24
50%	10	19	21	38	46
90%	21	33	34	60	72
97%	25	36	38	68	81

¹. Not for specification purposes.

². Density is measured by gas displacement pycnometer (ASTM D2840).

³. Bulk Density is the weight as measured in a container (graduated cylinder, to simulate a bin, silo, or carton) and includes the interstitial air.

⁴. Data represents percent volume distribution measured using laser light scatter technique.

For further information about our range of Solid and Hollow Glass Microspheres, please contact us:

Potters Industries LLC
 Engineered Glass Materials Division
 PO Box 841
 Valley Forge, PA 19482 USA

Tel: 800-552-3237
 Fax: 610-408-9724
 Website: www.pottersbeads.com

Potters Industries LLC is a leading producer of engineered glass materials serving the highway safety, polymer additive, fine abrasive, and conductive product markets.