



Potters Industries Inc.
an affiliate of PQ Corporation

ENGINEERED GLASS MATERIALS DIVISION

Hollow Microspheres

**Q-CEL[®] Hollow Microspheres:
Reduced Alkalinity Products**

Potters offers a line of Q-CEL[®] hollow microspheres with reduced alkalinity. They are intended for use in alkaline sensitive resins, including thermosets, such as polyesters, epoxies and urethanes. In many formulations, they have provided stable viscosity and density.

Formulators may choose Q-CEL[®] hollow microspheres according to working pressure and desired density. As the density in the Q-CEL[®] product series increases, sphere size decreases and maximum working pressures increase, allowing the formulator to choose the minimum density product that will survive mixing, pumping and use. Actual hollow microsphere attrition in working conditions can only be determined by customer testing.

These single-cell spheres are white, free-flowing oleophillic fillers for use where lower density is desired. They can replace heavy fillers, such as calcium carbonate, and thus lower the weight of the composite material. Because of the spherical shape, these spheres have the lowest surface area of any filler, which translates to less resin demand to incorporate them into the formulation. This can often result in cost savings, in addition to lower density.

APPLICATIONS

Q-CEL[®] hollow microspheres have found utility in auto body putties, SMC, lightweight castings, bowling ball cores, and plastisol sealants.

Other weight reduced compositions are just waiting for you to develop them!

Contact Customer Service to get in touch with your Technical Service Representative.

Samples in sufficient quantity for testing are available upon request.

Typical Properties		
Grade	5019	5032S
Physical Form	Free-Flowing Powder	Free-Flowing Powder
Color	White	White
Bulk Density, Untamped	0.11g/cm ³	0.20 g/cm ³
Effective Density, Liquid Displacement	0.19 g/cm ³	0.32 g/cm ³
	1.59 lb/gal	2.67 lb/gal
Mean Particle Size (microns)	72	63
Particle Size Range (microns)	5 - 150	5 - 150
Maximum Working Pressure	500 psi	1000 psi

Packaging

Q-CEL[®] products are available in cartons, boxes and bulk bags.

Safety

Material Safety Data Sheets (MSDS) will be supplied upon request.

CONTACT CUSTOMER SERVICE FOR SALES, SAMPLES OR TECHNICAL SERVICE

Call (800) 552-3237 Potters Industries, Inc
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Or Visit Potters Industries At Our Website:

www.pottersbeads.com

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