



## Extendspheres® HA Hollow Spheres

Sphere One's Extendspheres® are low density, high strength hollow ceramic spheres. They can allow the formulator to reduce the weight and overall cost of their finished goods.

Extendspheres® are compatible with most resins and cements. They provide additional benefits such as:

- Improved material flow
- Sag and "slump" resistance
- Reduced shrinkage & warpage
- Impact resistance
- Improved sound and thermal insulation
- Environmentally friendly



### Properties

**Physical Form:** Free-Flowing Powder

**Appearance:** Gray

**Particle Size Range:** 10-500 microns

**Mean Particle Size:** 160 microns

**Bulk Density:** 0.40 g/cc

**Density:** 0.75 g/cc

**Deformation Temperature:** 1600° C

**Compressive Strength:** 3000 psi



### Packaging

Extendspheres® HA hollow spheres are supplied in 50 pound multi-wall bags and in super-sacks. Standard pallet weight for both bags and sacks is 2,000 pounds. Customized packaging is available upon request. Samples in sufficient quantity for testing are available upon request.

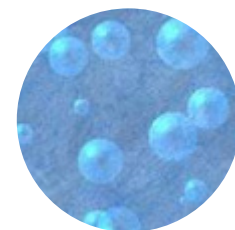


### Safety Information

In areas where these hollow spheres create dust, the use of a NIOSH-approved mask or respirator is recommended. Safety Data Sheet (SDS) will be supplied upon request.

Extendspheres® HA has been designed for Refractory applications.

Extendspheres® HA has a broad particle size distribution, and makes an excellent choice for use in casting reservoirs, refractory coatings, and grouts. Its high deformation temperature is able to withstand the casting temperatures of both aluminum and steel processes.



Contact us at: **800-252-0039**

or Visit: [sphereone.net](http://sphereone.net)

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