

25 Storey Ave. / Suite 133 Newburyport, MA, 01950 978-465-2705 rfoster@cenostar.com cenostar.com

## **EconoStar 160 Cenospheres**

## **Typical Properties of ES160 Cenospheres**

CenoStar **ES160** Grade cenospheres are low density, fine particle size, hollow ceramic spheres. Typically they are used to reduce density, reduce VOC levels, increase filler loadings, and improve viscosity in a variety of formulations.

CenoStar ES160 cenospheres exhibit excellent processing durability and temperature stability.

Because of the low cost per unit volume, CenoStar ES160 cenospheres can be used effectively for replacing or blending with higher cost products.

## Packaging:

CenoStar ES160 Cenospheres are supplied in 20kg (44lb) multi-wall paper bags or 500kg big bags.

	Ι	
Physical Form	Free Flowing Powder	
Color, Hunter Whiteness Index	Light Gray,Hw 45 - 55	
Particle Size Range, microns	10 - 160	
Particle Distribution, microns	<160,	97% (< 3% over)
	105 - 159, 75 - 104,	25% - 39% 12% - 26%
	45 – 74, < 44,	12% - 28% 2% - 10%
Bulk Density	0.32 - 0.45 g/cc	
True Density	0.85 - 0.95g/cc	
Compressive Strength	90% survival @ 3200psi	
Melting Point	1200 - 1400° C	
Sinkers	<6%	
Hardness, Moh's Scale	5 – 6	
Dielectric Constant	1.8 - 1.9	
Composition, %wt	Silica Alumina Iron	
Thermal Conductivity	0.1 - 0.2 W/mK	

## **Safety Information:**

In dusty areas, the use of a NIOSH approved respirator is recommended. Material Safety Data Sheets (MSDS) are available upon request

**Notice to Purchaser:** The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test conditions. You must evaluate and determine whether the product is suitable for your intended application. Since conditions of product use are outside of out control and may vary widely, the information is made available with no expressed or implied warranties (including the warranties of merchantability or fitness for a particular purpose). CenoStar Corporation's only obligation, and your only remedy, is replacement of product if shown to be defective when received. In no case will CenoStar Corporation be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other theory.

www.cenostar.com ES160