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EconoStar 160-I Cenospheres

Typical Properties of ES160-I Cenospheres

CenoStar **ES160-I** 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-I cenospheres exhibit excellent processing durability and temperature stability.

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

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, 25% - 39%
	75 - 104, 12% - 26%
	45 - 74, 12% - 28%
	< 44, 2% - 10%
Bulk Density	0.32 - 0.45 g/cc
True Density	0.75 - 0.80g/cc
Compressive Strength	90% survival @ 3200psi
Softening Point	1040° C +/- 5%
Melting Point	1200 - 1400° C
Sinkers	<6%
Composition, %wt	Silica 50.0 - 60.0 Alumina 22.0- 30.0 Iron 1.5 - 5.0

Packaging:

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

Safety Information:

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

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