

Trelleborg Fillite® SGHA (500HA) Alumino-silicate Cenospheres

Category : Ceramic , Glass , Oxide , Silicon Oxide , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Fillite is a glass hard, inert, hollow silicate sphere. Fillite is primarily used to reduce the weight of plastics, rubbers, resins, cement, etc., but also imparts further benefits in many situations. Many of the advantages from the use of Fillite, including increased filler loading and improved rheology, are directly attributed to the spherical nature of the material. Typical Applications SGHA has a higher alumina content than the normal Fillite grades and has been specifically developed for higher temperature applications such as refractories, foundry applications, high temperature resistant coatings. Other higher alumina grades are whiter in color and particularly suitable for gypsum board jointing compounds, veneering plasters, stuccos, sealants, coatings and cast resins. Advantages Reduced weight, increased filler loadings, better flow characteristics, less shrinkage and warping. Improved physical properties in moldings, castings, and laminates, reduced water absorption, improved flame retardance, improved chemical resistance. All information provided by Fillite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-Fillite-SGHA-500HA-Alumino-silicate-Cenospheres.php

Physical Properties	Metric	English	Comments
Bulk Density	0.400 - 0.480 g/cc	0.0145 - 0.0173 lb/in ³	
Pellet Density	0.700 - 0.900 g/cc	0.0253 - 0.0325 lb/in ³	
Loss On Ignition	<= 2.0 %	<= 2.0 %	
Particle Size	5.0 - 500 µm	5.0 - 500 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.0	5.0	
Compressive Strength	13.8 - 27.6 MPa	2000 - 4000 psi	Crush Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.110 W/m-K	0.763 BTU-in/hr-ft ² -°F	
Melting Point	1400 °C	2550 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	34 - 39 %	34 - 39 %	
CO ₂	70 %	70 %	
Fe ₂ O ₃	<= 2.0 %	<= 2.0 %	
Nitrogen, N	30 %	30 %	
SiO ₂	55 - 65 %	55 - 65 %	

Component Elements Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	<= 0.30 %	<= 0.30 %	Surface

Descriptive Properties	Value	Comments
Average Wall Thickness (% Sphere Diameter)	5-10	
Color	Off-White	
Packing Factor (%)	60-65	
Particle Size Distribution (%)	100	% Passing 500 microns
	10-30	% Passing 100 microns
	2-10	% Passing 50 microns
	30-70	% Passing 150 microns
	85-100	% Passing 300 microns

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