



Kirkside Products
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Cenospheres - clean and graded in bulk



Kirkside Products supply clean and graded cenospheres which have unusually high compressive strength and can easily handle pressures of 4,000 psi without breakage. This immense strength extends their versatility by providing increased breakage resistance during mixing, processing and application. Their light gray color consistency will always give you the results you expect, as well as delivering lower tint costs.

Extreme Heat Resistance: With a melting point around 1500° Celsius, clean and graded cenospheres from Kirkside Products can withstand temperatures far higher than any comparable thin-walled hollow glass microsphere. This extreme temperature resilience is achieved through unique refractory properties.

In addition to these unique features, Kirkside Products clean and graded cenospheres provide all the benefits you would expect from a microsphere and can improve the properties and performance of many formulated products.

Benefits:-

- Graded, pure, clean and off white in colour
- Extreme heat resistance
- Very high compressive strength
- Reduced weight, shrinkage and sag
- Improved impact resistance and thermal shock resistance
- Excellent thermal insulation
- Chemical stability
- Improved rheology
- Non-absorbency
- Non-flammable
- Potential costs savings through lower resin/binder usage

Cenospheres - Product Grade Available

CENOSPHERES	Nominal Particle Size Range In Microns	Approximate Particle Mean in Microns	Grade Type
KIRKSPHERES	150 - 300	220	General Multipurpose

The above clean and graded cenospheres are sold in bulk quantities in 25 kilo bags.

Chemical Properties

SiO ₂	51% - 60%
Al ₂ O ₃	25% - 33%
Fe ₂ O ₃	1% - 6%
CaO	0.2% - 0.6%
TiO ₂	0.5% - 1%
MgO	0.5% - 2%
SO ₃	0.5% - 1%
Na ₂ O	0.5% - 2%
K ₂ O	1% - 2%

Physical Data

Form	Hollow spheres
Appearance	Free flowing Powder
Colour	Light Gray / White
Odour	Nil
pH	7 – 9
Moisture	<1.0%
Particle Density	c.a. 0.30 – 0.42 gm/cc
Bulk Density	c.a. 0.32 – 0.5 Kg/Lt
Flammability	Incombustible
Melting Point	1300° C - 1800°C
Solubility in water	Non Soluble
Solubility in Organic Solvents	Non Soluble
Hardness (Moh Scale)	5 – 6
Thermal Conductivity	0.036 – 0.06 Wm ⁻¹ K ⁻¹
Hydrostatic Crushing strength	5-30 MN/m ²
Reactivity	Inert glass of very low reactivity

Please contact us directly for further details based upon your requirements.

Using cenospheres with water or solvent based paints, caulks, tapes, fabric, sheets, plastics and metals, Kirkside Products clean and graded cenospheres have proven their effectiveness in a myriad of environments and applications.