

Cenosphere Processing? Plant. Cenosphere Separation from Fly Ash. Production of Cenospheres from Coal Fly Ash.

Description:

Cenospheres are inert, light weight and hollow spheres particularly made of alumina or silica and filled with inert gases or air. They are typically manufactured as a by-product of coal combustion in the thermal power plants. Cenospheres are hollow, low-density, spherical, and free-flowing aluminosilicate microspheres that are produced as a by-product of coal ignition at the coal-fired power plants. It is a rich-in-ceramic industrial waste formed at the time of coal combustion in the thermal power plants. Inside the each sphere there is a near vacuum that produces good properties of thermal and acoustic insulation making a product ideal for automotive acoustic insulation applications where the mass is a major factor to be considered. These spheres are used globally in several automotive application including tyres, brake linings, friction linings, dashboard, and clutch facings. The broad range of usage has increased the demand of cenosphere suppliers India in the industry.

Cenospheres, the high strength, small sized, lightweight, non-porous, free flowing, hollow ceramic spheres produced in coal fired thermal power plants during the burning of lignite or coal at very elevated temperatures, find extensive usage across a number of industries owing to their physical properties. Cenospheres find usage as fillers in a number of applications, replacing resins and minerals and imparting diverse benefits such as reduced shrinkage, improved level of thermal insulation, weight reduction, improved level of fire resistance, and easier application.

Uses of Cenosphere:

Cenospheres in Paints and Coatings

There are a great many uses for cenospheres in the paint and industrial coating industry, due to the additional qualities they provide. For example, cenospheres are often used in coatings to control infrared radiation, giving those coatings an advantage over ones that merely attempt to limit thermal conductivity.

Cenospheres in Syntactic Foams

Cenospheres are often used to make 'syntactic foams'. These are specialized solids which use cenospheres as a filler to provide any number of advantages, from lower cost, to added strength, sound proofing, buoyancy and thermal protection.

Cenospheres in Plastics and Polymers

Cenospheres also have a use in the manufacture of plastics and polymers, as their re-formable shape or strength helps to avoid shrinkage in thermoplastics and thermosetting plastics.

Cenospheres in Pharmaceuticals

Cenospheres have been used in the pharmaceutical industry for many years, as the small balls can act as a near-perfect transport device when coated with drugs.

Cenospheres in Advanced Industries

Cenospheres are also being used in the development of metal matrix composites (MMC), a variety of materials that attempts to combine the high energy absorption, impact resistance, and low density of the spheres with the qualities of other substances.

For more details download PDF file.

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