



The Cenosphere People





About Us

We are in global business of manufacturing and processing of specialty chemicals established in 1997. We are Mumbai based company having factory unit at Nagpur-Maharashtra, India. Since year 2002, we are in the business of natural chemical called cenosphere in its various forms... Enhancing and taking industries in to the next generation technology.

We are heaving best of the procurement system with best quality of cenosphere from various thermal power plants of India. Companies like NTPC, Adani power and many other State govt plants. We have long term agreements for consistent supply, we fulfill our long-term commitments given to our customer.

We have fully equid cenosphere Drying and processing plant, heaving capacity of about 500 tons. we have all the machineries like Rotary Drum Dryer with world class vibro Swifter and laboratory with all the latest testing equipment's and instruments including Helium based Pyncno meter for testing of true density.

We have a very strict production S.O.P. heaving inspections & testing on each stage, and getting the desired quality and quantity on scheduled time line. All this is possible with our highly experienced and trained team.

About Cenosphere



**Cenosphere Grade:
VA – LD – 300**

Cenosphere are small, high compressive strength, extremely lightweight, free flowing, with high temperature melting point and non-porous, hollow ceramic spheres.

Technical Specifications.

SiO ₂	52 - 62%
Al ₂ O ₃	32 - 36%
Specific Gravity(g/cc)	0.75 - 0.85
Bulk Density(KG/M ³)	350 - 450
Compressive Strength	180 - 280 KGS/CM ² (3000 PSI)
Color	Light Grey – Light Buff
L.O.I	Less than 1 %
Sinkers	4- 5 % Max

Cenosphere are used primarily as lightweight fillers are used in the oil and gas, plastics, building, refractory, constructions, footwear, composites, automotive, recreation, aerospace, defenses and surface and foundry paints & coating industries.

Oil & Gas Drilling

- **Oil field- Cementing**

Offshore Operation / Onshore Operation

Cenosphere are used in the lightweight drilling fluids and cement. Cenospheres chemically stable, incompressible, and insoluble in water or oil. use of cenosphere in drilling cement slurries decrease slurry density without increased water content.



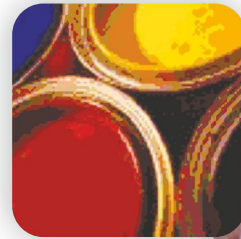
Onshore operation



Offshore operation

Paint and Coatings

- **Textured Paint**
- **Foundry Paints and Coatings**
- **Flame Retardant Coatings**
- **High Temperature Pipe Lines Insulation Coatings**
- **Water Tank Insulation Coatings**



Foundry coatings are designed primarily to withstand high temperatures. Low thermal conductivity is essential for greater thermal efficiency. The introduction of cenospheres will reduce weight whilst maintaining the integrity of the coating.

Automobile Industries

- Car Body Fillers
- Car body under coatings
- Car brake pads and linings
- Car sound proofing
- Car sealants
- Car plastics
- Car composites
- Other composite & light weight

Car body fillers are predominantly lightweight, two-component polyester systems. Cenospheres are used in these systems as light weight filler. Cenospheres enhance filling properties and contribute to easy sanding characteristics.



Constructions

- Concrete Repair Mortars
- Floor Levelling Comound
- Light weight construction wall and bricks
- Light weight high compressive boards
- Roof White Washed with Reflective Enamel
- Sound Proof Boards, Fire & Blast Boards



Cenospheres are used in these systems as light weight insulative filler to reduce or increase temperature . Cenospheres enhance filling properties and contribute to easy sanding characteristics. The spherical shape of cenosphere enable less binder used provides equal Distribution of the filler material, it also increases stiffness.



Footwear

- **Cenosphere for light shoe sole sheets & light shoes**

The spherical shape of cenosphere enable less binder used provides equal

Distribution of the filler material, it also increases stiffness. Low density of cenosphere reduce the part weight at the same time improve strength and durability of the end products. And saves huge cost



Aerospace, Defense Insulation & Airplane Insulation Coatings

cenosphere are integrated into flight-control surfaces on the F-22 Raptor. Radar-absorbing coatings are applied to the surface of the body that effectively drains the energy of the radar signal. The cenospheres reflect incoming radar waves internally rather than back to the radar.



Foundry Insulation Applications

- Foundry Insulating Refractory Castables
- Foundry Insulating Refractory Bricks
- Foundry Insulating Refractory Feeders

Insulating refractory castables are made from lightweight alumina rich cements. Cenosphere are the ideal ingredient in these castable cements.



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