



MICRO SILICA FUME

ABOUT GLOBAL MICRONS

Brand, Vision, Mission, Core Values



Global Microns are manufacturer, supplier & exporter of Micro Silica Fume, Rice Husk Ash and Biomass Pellets for High Performance Concrete mix production, Metallurgical additives used in steel plants and foundries and Refractory admixtures. We establish long- term partnerships with several large-scale Construction, Foundries, Steel Production, Ferrosilicon and Silicon Metal factories, to control the raw materials supply and ensure the annual output of 80,000MT microsilica.

Backed by its highly professionally skilled & experienced men power is dominating the European market for last two decades catering its steel and Cement producing reputed clients apart from middle east, Asian, Australian and European customers including domestic clientele with its manufacturing unit at lothda industrial area, P.O Rajkot, Gujarat -BHARAT (India).

Our Vision

Our vision is to take an organization of most modern. Technology based statutory-complaint global standard free from customer complaints of any nature supported by well-equipped infrastructural facilities and trained, skilled competent manpower. Also Contributing to world's green revolution by turning agriculture & industrial waste into value added green additives for infrastructure industry.

Our Mission

We would strive to put in to practice our vision with all our efforts though an integrated management approaches systems, technology, best-quality resources and facilities and supported by demonstrated leadership and employee commitment at all levels as the prime drivers for ensuring a continuously progressive, stringently quality conscious safe, productive and healthy work environment.

Core Values

Sincerest dedicated commitment towards execution of all timely actions with tech-savvy skill, professional urge and management expertise to the best satisfaction and in quest of excellence for our most valuable customer's requisite fulfillment of services.

- Customers First
- Sustainability & Integrity
- Empowerment & Respect
- Courage for Innovation





Pozzolanic MicroSilica

MICRO SILICA FUME®

Densified Dry Silicon Dioxide Compound



MICRO SILICA FUME

MicroSilica Increase Strength of Concrete

MICRO SILICA FUME is composed of silicon dioxide (SiO₂), Its with total SiO₂ content 85% - 95%. It will react with the Calcium Hydroxide from the cement, which will form more of the Calcium Silicate hydrate,igreatly improves compressive strength, bond strength and abrasion resistance , permeability and helps in protecting reinforcing steel from corrosion. Using it will also increase the durability of the concrete.

Area of Application:

- High Performance Concrete
- Precast Concrete
- Oil & Gas Drilling Industry
- Marine / Ocean concrete
- Ready Mix Concrete for High Strength Concrete
- Wear Resistant Flooring, Grouting Material
- Agriculture and Fertilizer Industry
- Nuclear Power Project

MICRO SILICA FUME can be used to produce concretes with very low permeability and high abrasion and chemical resistance. Applications include parking garages, bridge decks, marine structures and any application where improved water tightness and reduced permeability are desired.

Due to its chemical and physical properties MICRO SILICA FUME can greatly enhance the strength performance as well as the bonding properties of concrete to which it is added. Higher strengths translate to greater design flexibility and more efficient use of space in completed structures.

Specifications

SiO₂	85-96%
CaO	2% max
Moisture	0.1 - 0.35%
Al₂O₃	1% Max
Particle Size	0.03 - 0.1microns
Available Alkalies	0.5 - 1.5%
pH Value	7-9
Dry Bulk Density	500 - 700 kg/m ³
Carbon	2% max
Loss Of Ignition	2.0 - 4.0%
Colour	Grey
Surface area (BET method)	15 - 28 m ² /g



Standard Specifications

Conforms to ASTM C-1240-03, AASHTO M-307, EN 13263:2005 and IS 9103 (1999)



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MicroSilica Increase Strength of Concrete

Directions for use:

MICRO SILICA FUME is recommended for use at a rate of 5 to 15% by weight of the cement. Dosage rates may vary depending on the application and desired concrete properties.

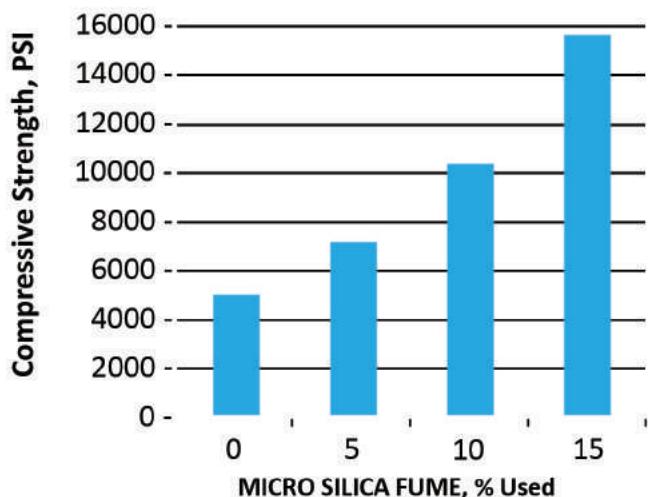
Associated Advantages:

Enhanced durability: Micro Silica Fume (SIO₂) increases the strength of concrete and increases the resistance to weathering and enhances the durability.

Compatibility: Micro Silica Fume (SIO₂) is compatible with other admixtures in the same concrete mix. When used in conjunction with other admixtures, each admixture must be dispensed separately.

- Dramatically reduces permeability
- Increases resistance to chemical attack
- Increases abrasion/erosion resistance
- Improves durability
- Produces ultimate compressive strength
- Increases flexural strength
- Increases bond strength
- Less material wastage
- Reduces the rate of carbonation
- Decreases permeability to chloride
- High Pozzolanic Activity Index
- Allows greater design flexibility and structural design economies

Compressive Strength Performance



Container Capacity

20' FCL

5 KGS Bags 9.250* MT
10 KGS Bags 9.600* MT

40' FCL

5 KGS Bags 18.500* MT
10 KGS Bags 21.600* MT

For all export consignments, bags will be placed on pallets (1200mm x 1000mm or 1100mm x 1000mm) and will be wrapped with shrink films.

Sub Packing: 5 Kg, 25 Kg, 500 Kg and 1MT Bags.

Each company is unique in its own. And we respect their preferences.

*We are offering various packing sizes looking at the demand from our world wide buyers.

Storage: When stored correctly has an indefinite shelf life like cement, it must be protected from contamination and moisture. The product can be stored in bulk in a clean, dry storage silo.



RICE HUSK ASH

Technical Data Sheet for Steel plants

Product Name	Rice Husk Ash (which is also known as Refractory Cements, Refractory castables, Glutin, Insulex, Low smoke, Heat Insulated, Ladle Covering Compound and Tundish Covering Compound)
Types of Carbons	High And Low Carbon
Feature	Available in Flake and Powder form

How it works ?

Rice husk ash powder, being spread over molten metal which is usually at temperature of 16500 C while in Ladle/Tundish. It will create a thick layer of about 1"- 2" over molten metal and helps maintaining temperature of molten metal in process.

- Prevent Heat Loss
- Absorbs nonmetal Impurities
- Better Metal Quality
- Prevents Re Oxidation of Metal

Specifications

Chemical Propertise		Physical Propertise	
SiO ₂	Min 85 - Max 96%	Bulk Density	Min 350 - Max 450
CaO	Min 0.0% - Max 0.58%	Moisture / H₂O	Min 0.00% - Max 1% max
Na ₂ O	Min 0.0% - Max 2.5% max	Sieve Analysis Size	
Al ₂ O ₃	Min 0.20% - Max 1%	(a) 0 mm - 1 mm	(a) 98.9%
MgO	Min 0.01% - Max 1%	(b) 1 mm - 2 mm	(b) 1.1%
Fe ₂ O ₃	Min 0.25% - Max 1%	Colour	Grey White
pH Value	Min 7 - Max 9		Dark Grey
Carbon	Min 1% - Max 12%		Black
LOI	2% max	% of material below 2 mm	100%
K ₂ O	Min 0.0% - Max 2.5% max	Loss of Ignition	Min 0.0% - Max <5% max
Non-Hazardous		Melting point	> 1550 Degree Celsius

Please Note

- 1: The above numbers are approximately.
- 2: Low Carbon ratio will be between 1% - 3% and High Carbon ratio will be between 5% - 12%.
- 3: As per client requirement, we export the material and provide the Test certificate (If any).



Global Microns

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