

Description:

Microsillex Oil and Gas is a blend of silica, iron and inorganic salts calcinated to meet ASTM C-188, ASTM C-227, ASTM C-311, ASTM C-430, ASTM C-1012 and ASTM C-1260 specifications. ASTM requires particle size to pass at 76% through a 325 (45 um) sieve. Due to its specific formulation, an ultrafine particle size is not necessary to achieve the expected compressive strength. A proven alternative to silica fume in silica fume cements, it provides safety and consistency at a low cost. It can be transferred directly to the silo and, when used and mixed at the same concentrations an density as silica fume, it attains an almost identical compressive strength.

Uses and applications:

Microsillex Oil and Gas is used to replace silica fume or flyash: silica fume blends in cement systems that have historically utilized silica fume.

Oil field cementing

Lightweight completion cements can be used.

Used with Fly ash to moderate slurry costs.

Compatible with most cement additives.

Physical properties:

Specific Gravity:	2.30
Bulk Density:	33 lb/f ³
Absolute Volume:	0.0521 gal/lb

Advantages:

Less hazardous than silica fume.

Develops the near identical 72 hr compressive strengths as silica fume in fume cements.

Lowers the cost of silica fume in cements.

Can be blown directly into the cement silos.

Silica fume and fly-ash blends are not needed.

Mined and manufactured to ASTM standards.

Recommendations for use:

Microsillex Oil and Gas can be blown directly into a silo without the expensive blending that is required with silica fume. It is a lower cost alternative to silica fume that is specifically formulated to produce performance and consistency.

When used as a replacement for silica fume will yield slightly lower slurry viscosity, slightly longer Total Thickening Times, and slightly higher fluid loss. The use of low concentrations of sodium meta-silicate (SMS), i.e., 0.1%, etc., will increase the slurry viscosity and reduce the Total Thickening Times to nominal values. Cellulose fluid loss additives can be used to obtain the desired fluid loss and Total Thickening Times per customer specifications.

Recommendations for transport:

- Remove from platforms nails or materials that may damage the bags.
- Use belts or bands to secure the bags; if ropes are used, place protectors in the friction surfaces.
- When using a service lift observe that the blades do not harm the pallets nor the bags.
- To lift or move a bag, it must be taken from below with both arms.
- Use platforms or long wide wheelbarrows to prevent the bags from protruding.

Recommendations for storage:

- Cover the bags, store them in dry places and avoid long storage periods (more than 3 months.)
- Place the bags preferably on pallets or clean, flat surfaces.
- Avoid nails or broken pallets.
- Use the bags that have been in storage the longest.
- Arrange in piles leaving 2 inches of space inbetween each pile.

Available in:

- 50 lb. bag.

Precautions:

Microsillex Oil and Gas dust contains materials that can cause throat, eyes and skin irritation. Avoid direct contact. The use of the appropriate glasses, gloves and mask is advised. Wash the exposed parts of the skin with water. If any dust gets into the eyes, flush immediately and repeatedly with water for 10 minutes and get prompt medical attention.

The specifications and properties of this product are not limited. If you require any special characteristics please contact GCC Technical Assistance to get further guidance. Safety Data Sheet available at gcc.com or upon request via fax or e-mail.