



DRILLING FLUID PRODUCTS

TECHNICAL INFORMATION

CEM-SIL™ SILICA FLOUR

Oil Well Cement Additive

CEM-SIL is high purity micronized quartz powder (Silica dioxide). CEM-SIL is specially processed to specific size for addition to API cement and is used to stabilize cement systems at high temperatures.

Product Specifications:

Property	Specification
Purity (as SiO ₂)	Min. 98.0%
Moisture Content	Max. 1.0%
Loss on Ignition	Max. 0.5%
Bulk Density (kg/m ³)	1120 – 1160
Particle Size (below 200 mesh)	Min. 98.0%
Appearance	Off white fine powder

Functions:

CEM-SIL has the following benefits:

- Used to stabilize cement systems for high temperature wells (above 150°C).
- Effectively prevents strength retrogression and the associated increase in permeability that occurs in set cement at elevated temperatures.
- Cost effective additive

Recommended Treatment:

CEM-SIL can be added in concentrations up to 50% by weight of cement depending on the specific requirements. To produce optimum properties, approximately 35% by weight is used.

Normally CEM-SIL is dry blended with cement.

Packaging:

Packaged in 25 and 50 kg multiwall paper sacks and in 1000 kg HDPE big bags.

Legislation and Handling Recommendations:

Not restricted by any regulatory agency. Refer to the Material Safety Data Sheet (MSDS) for the product prior to use.