SILICA FLOUR

CEMENT EXTENDER

Silica Flour is powdered sand that inhibits strength retrogression in oil-well cements at elevated temperatures. As a cement extender it prevents cement sedimentation by increasing low shear viscosity.

Silica Flour adjusts the phase transformation of cement-water mixture that occurs at high temperature which helps oil-well cement maintain its compressive strength and low permeability.

Silica Flour has been widely used in cementing SAGD wells in combination with refractory-type cements. It is compatible with all cements as well as commonly used additives such as retarders, friction reducers, fluid loss additives, weighting and lost-circulation materials.

PHYSICAL PROPERTIES:

Appearance: White powder
Specific Gravity: 2.63
Bulk Density: 1305 kg/m³
Melting Point: 1725°C

CHEMICAL PROPERTIES:

Silicon Dioxide: min 98%
Water Solubility: max 0.5%
Particle Size Distribution (% Retained):

- 100 mesh, Max: 2
- 200 mesh, Max: 6
- 325 mesh, Max: 5
- Pan, Min: 74

MIXING & HANDLING

Silica Flour is very stable and is not susceptible to fire, explosion or decomposition. The finely divided dust may cause eye and respiratory irritation. Use good industrial hygiene practice and wear goggles and a dust mask when handling the material.

WHMIS: Controlled (see SDS)
TDG: Not regulated
Packaging: Bulk