



Iron Sulfate based Chromium (VI) Reducing Agent for Cement

Description: CR 500 is chemical additive used to reduce the water-soluble Cr(VI) content in cement to below 2 ppm by converting Cr(VI) to Cr(III).

Technical Properties:

Chemical Composition	Iron(II) Sulfate Heptahydrate
Chemical Formula	FeSO ₄ .7H ₂ O
Color and Appearance	Crystalline solid
Color	Light green
pH (5% solution)	2.0–3.0
Iron (%)	22
Moisture (%)	≤2

Application :

CR 500 may be added to the grinding system through the feed conveyor together with clinker and other components, or incorporated into the cement at the mill outlet after grinding.

Advantage :

- Increases grinding efficiency.
- Reduces mineral grinding costs.
- Provides energy savings.
- Increases powder flowability.
- Decreases the agglomeration of mineral particles.
- Reduces or eliminates blockages in silos.

Health and Safety Information:

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the additive. The Safety Data Sheet (SDS) should be read for detailed information.

Dosage:

Recommended dosage range: 100-120 grams/ton for each ppm Cr (VI) in cement. The optimal dosage should be determined through laboratory and industrial mill trials, based on minerals properties, mill settings, and target fineness.

Storage:

Must be stored at temperatures between +5°C and +35°C. Direct sunlight exposure and freezing conditions should be avoided. Once frozen, the product should be thawed out slowly and re-mixed thoroughly prior to use. Under proper storing conditions, the product's shelf life is 12 months from production date if keep in original packaging unopened and undamaged.



Packaging : 25 kg PE bags 1000 kg big bags

Fire : CR 500 non-flammable.

