



Cement Grinding Aid for Ball Mills and Vertical Roller Mills

Description:

POLYSTAR GA 1050 is a high-efficiency grinding aid and performance enhancer formulated for use in both ball mills and vertical roller mills (VRMs). Its advanced organic composition improves grinding efficiency, reduces agglomeration of fine particles, enhances material flowability, and stabilizes the milling process across different grinding technologies. In ball mills, the product minimizes coating on grinding media and mill liners, improves the impact and abrasion mechanism, and increases mill throughput. In VRM systems, it stabilizes the material bed, improves classification efficiency, and supports consistent product fineness. Additionally, POLYSTAR GA 1050 improves cement hydration kinetics, resulting in significant gains in both early and long-term compressive strengths.

Technical Properties:

Chemical Base	Amine
Appearance	Homogeneous Liquid
Color	Light Brown
pH	10 ±1
Density (20 °C)	1,09 ± 0,02
Chloride content	< 0,01

Application :

POLYSTAR GA 1050 should be directly added to the mill or conveyor belt during the grinding process using an adjustable dosing pump.

Advantage :

- Increases dispersion and grinding efficiency.
- Resolves Pack Set problem and increases mill capacity.
- Provides energy savings.
- Reduces cement production costs.
- Grinding aids neutralizes conglomeration forces.
- Increases cement flowability by decreasing the agglomeration of cement particles.
- Desired cement fineness is obtained at a shorter time.
- Achieves self-placement of cement in the silos.
- Reducing the CO₂ emission as a result of reducing energy consumption for the grinding process.

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: 0.04% – 0.07% by weight of cement (400–700 g/ton). The optimal dosage should be determined through laboratory and industrial mill trials, based on clinker 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.



Standards compliance:

Complies with ASTM C465.

Cleaning :

In case of a possible spill or contamination, it can be washed with clean cold water.

Packaging : 1000 kg IBC konteyner Bulk

Fire : POLYSTAR 1050 non-flammable

