



## Grinding Aid for Vertical Roller Mills (VRM)

### Description:

GA 1100 is a high-performance grinding aid specifically formulated for the production of cement and mineral components in vertical roller mills (VRMs). The product contains modified organic compounds designed to enhance grinding efficiency, optimize particle size distribution, and reduce energy consumption under the dynamic operating conditions of VRM systems.

### Technical Properties:

<b>Chemical Base</b>	Modified Organic Compounds
<b>Appearance</b>	Homogeneous Liquid
<b>Color</b>	Dark Brown
<b>pH</b>	9,0 ±1
<b>Density (g/cm<sup>3</sup>)</b>	1,08 ± 0,02
<b>Chloride content</b>	< 0,01

### Application :

GA 1100 should be directly added to the mill or conveyor belt during the grinding process using an adjustable dosing pump.

### Advantage :

- Engineered to address the typical challenges of VRM operation—such as high grinding pressure, shorter residence time, material bed stability, friction effects, and air-transport limitations POLYSTAR GA 1100 offers the following benefits:
- Increases mill throughput and reduces energy consumption per ton.
- Improves grinding stability by reducing vibration and pressure fluctuations.
- Optimizes material bed formation and enhances drying and classification behavior.
- Facilitates better control of fineness (Blaine) and residue on sieve.
- Enhances separator efficiency and ensures consistent product gradation.

**Fire :** GA 1100 non-flammable.

### Health and Safety Information:

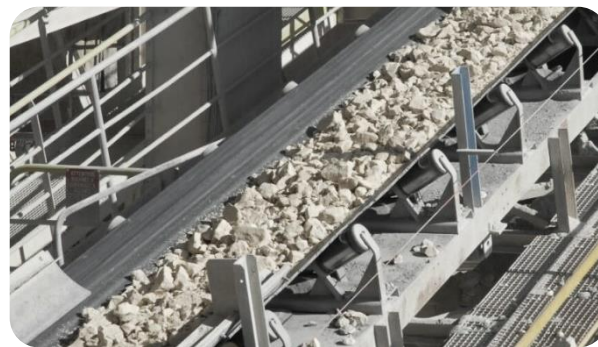
The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the additive. The Safety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

### Dosage:

Recommended dosage range: 0.03% – 0.05% by weight of cement (300–500 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

