

TAVERO[®] AG 6300

Grinding Aid/ Quality Improver for Vertical Roller Mills

Product Description

TAVERO[®] AG 6300 is a chemical additive used as a cement constituent to improve the manufacture and the properties of cement. TAVERO AG 6300 allows to optimize cement grinding in Vertical Roller Mills (VRM), to control vibrations and to reduce water addition, enabling the production of cements with reduced pre-hydration and improved performance.

TAVERO AG 6300 is an aqueous solution of selected raw materials to suit the requirements of the cement manufacture.

Physical Properties

Appearance	Brown liquid
Density (g/l)	1055-1075 (1.061)
pH	10.0-11.5 (11.2)

Recommended Addition Rate

According to GCP experience the addition rate is typically in the range of 500-1000 ml/ton of treated cement. However the optimum addition rate depends on the characteristics of the material and the grinding circuit and is normally assessed through industrial tests. GCP personnel are available for assistance.

Deviation from the optimum cannot guarantee the expected results and could have an impact on the cement characteristics.

Overdosing can lead to unstable mill operations, as well as undesired modifications of cement properties.

Benefits

TAVERO AG 6300 is a grinding aid for cement, which reduces the tendency of re-agglomeration of the fine particles formed during the comminution process.

TAVERO AG 6300 permits improvements in the efficiency of the mill and separator and thus increases the production rate with a corresponding reduction in grinding energy consumption. TAVERO AG 6300 also permits improvements of the flowability of the finished cement.

TAVERO AG 6300 enables stable operation of the VRM with reduced amount of water injection onto the grinding bed. Reduced water injection can lead to reduced pre-hydration of the cement, resulting in improved properties such as higher early strength and reduced setting time.

Cements produced with TAVERO AG 6300 have a lower pack-set tendency and hence can provide advantages during loading and unloading operations. TAVERO AG 6300 may also improve the particle size distribution and activate the hydration kinetics, thus increasing the strength of the treated cement.

Advantages

- Reduced tendency of re-agglomeration
- Reduced need for water injection for bed stabilization, leading to reduced cement pre-hydration
- Improved flowability
- Lower pack set tendency
- Increased mill output
- Reduced kWh/t

Certification

TAVERO AG 6300 meets the requirements of EN 197.

Typical Applications

TAVERO AG 6300 can be used for the grinding of most cements in vertical roller mills.

Main applications are:

- Portland cements
- Portland blended cements

How to Use

TAVERO AG 6300 should be added onto the feed belt or injected pure or diluted into the mill. For vertical roller mills, injection directly onto the grinding bed is ideal.

For an accurate proportioning of TAVERO AG 6300 a volumetric metering pump is suitable.

GCP personnel are available for assistance.

Packaging and Storage

TAVERO AG 6300 is supplied in 205 litre drums, in 1000 litre plastic containers or bulk.

TAVERO AG 6300 does not require particular precaution for storage. However it should be protected from freezing or excessive hot conditions. For tanks and containers placed outside in cold conditions a heating system or a re-mixing device is recommended. It is also advisable to insulate exposed pipelines.

Shelf life is at least 12 months if stored in sealed manufacturer's containers.

Health and Safety

Read and understand the product label and Safety Data Sheet (SDS) if handling the product directly. All users should acquaint themselves with this information prior to working with the product and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office.

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