



Technical data sheet

CHRYSO®AMA 30 EL

A high efficiency early and late strength grinding and activator

Description

CHRYSO®AMA 30 EL is a grinding aid specifically formulated to increase early and late strengths, and can be used to reduce clinker while increasing extender content, particularly in limestone extended cements.

Advantages

- Increased early and late mechanical strengths of the cement (from 10% -15% at equal composition).
- Allows for increased limestone extension and therefore decreases the percentage of clinker in cement in order to reduce CO₂ emissions and production costs.
- Increased mill production (10% to 20%) – depending on the efficiency of the equipment and the characteristics of the material to be ground.
- Reduced grinding energy costs.
- Prevention of cement agglomeration on the media, diaphragm, liners and the separator.
- Improved powder flow characteristics before, during and after storage -resulting in improved packing times and packing consistency.
- The mechanical strength of cement is increased at early stages due to improved granulometry (particle size distribution).
- Designed specifically for closed circuit systems.

Physical and chemical properties

- Physical state (20°C): liquid
- Colour: brown
- Specific gravity (20°C): > 1.07 (±0.005)
- pH (20°C): 9 to 12

Packaging

- Bulk tanker loads (where appropriate)
- 1 000 litre containers



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Application guidelines

Use

- This grinding aid is used in cement production, according to SANS 50197-1 (ENV 197-1), and formulated to improve the grinding of clinker and limestone based cement.
- **CHRYSO®AMA 30 EL** is a grinding aid activator that improves both the early and late strengths of Cem I type cements and is geared to maximise limestone addition, while maintaining late strengths in blended cements.

Dosage

- It is suggested that 0.2 ℓ to 0.6 ℓ of **CHRYSO®AMA 30 EL** is used per tonne of fresh feed.
- Industrial trials are required to determine the optimum dosage.
- **CHRYSO®AMA 30 EL** is a ready to use liquid grinding aid that may be applied onto the feed conveyor belt and as such, a dosing pump is recommended in order to introduce the correct dosage into the mill.
- Dosages in excess of 1 ℓ per tonne should be avoided.

Precautions

- In certain circumstances, **CHRYSO®AMA 30 EL** may cause an increase in the air contents.
- Trials should be conducted and air contents checked before full scale production is undertaken.

Storage

- **CHRYSO®AMA 30 EL** is guaranteed for 12 months starting from the manufacturing date, provided no other chemicals are added to it.
- The product should be stored away from the rain, in clean, dry tanks.
- This product will not freeze above -15 °C.

Health and safety

- This product is classified as harmless.
- **CHRYSO** will provide onsite assistance when requested.
- Refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of **CHRYSO's** knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving **CHRYSO's** liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. **CHRYSO** specialists are at the disposal of the users in order to help them with any problems encountered.

