



Technical data sheet

CHRYSO[®]AMA 42 EL

Grinding aid – early and late age strength activator

Description

CHRYSO[®]AMA 42 EL has been developed specifically for closed circuit 1st generation systems. The product is specially formulated to increase both the early and late age mechanical strengths of cement. The primary use of **CHRYSO[®]AMA 42 EL** is to improve the reactivity of the clinker offering the ability to produce high performance cement in 1st Generation systems.

Advantages

- Increased 2 day mechanical strengths (from 10% -15%) as well as 28 day mechanical strengths (from 8% - 10%).
- Allows for fly ash and pozzalana extension and therefore decreases the percentage of clinker in cement in order to reduce CO₂ emissions and production costs.
- Increased mill production (15% to 25%) – depending on the efficiency of the equipment and the characteristics of the material to be ground.
- Reduced grinding energy costs.
- Improved efficiency in open circuit systems, at equal specific surface area or equal sieve residues.
- Significant reduction/elimination 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 at all ages is increased due to improved granulometry (particle size distribution).

Physical and chemical properties

- Physical state (20°C): liquid
- Colour: brown
- Specific gravity (20°C): > 1,135 (±0,010)
- pH (20°C): 7,5 to 9,5

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.





Technical data sheet

CHRYSO®AMA 42 EL

Grinding aid – early and late age strength activator

Application guidelines

Use

- This grinding aid is used in accordance with SANS 50197 (ENV 197-1).
- **CHRYSO®AMA 42 EL** is an early and late age strength activator that is designed for 1st Generation systems or closed circuit 1st generation systems.

Dosage

- It is suggested that 0,3 ℓ to 0,9 ℓ of **CHRYSO®AMA 42 EL** is used per tonne of fresh feed. Above 0,6 ℓ may start over fluidising the cement and lead to dust issues.
- Industrial trials are required to determine the optimum dosage.
- **CHRYSO®AMA 42 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 of fresh feed should be avoided.

Storage

- **CHRYSO®AMA 42 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 -10°C.

Packaging

- Bulk tanker loads
- 1 000 litre containers

Health and safety

- This product is classified as corrosive.
- **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.

