



Technical data sheet

CHRYSO® VRM 159

High performance vertical roller mill grinding aid

Description

CHRYSO® VRM 159 is a high performance grinding aid that is specifically formulated for cement grinding in vertical roller mills.

Advantages

- **CHRYSO® VRM 159** decreases the need for water injection (up to 50%) through the reduction of mill vibration (~30%). Table vibration is reduced by improving the bed stability and thickness.
- By lowering the water addition, the cement will have greater mechanical strengths, and reduced setting time.
- **CHRYSO® VRM 159** increases the mill productivity between 6% and 18% (this is dependent on grinding equipment and the characteristics of the material to be ground.)
- This greater productivity reduces grinding energy costs and creates a positive packet effect.
- **CHRYSO® VRM 159** also reduces the circulating load at constant feed (ΔP decrease). The separator efficiency is improved on primarily through the reduction of agglomeration.

Physical and chemical properties

- Physical state (25°C): liquid
- Colour: brown
- Specific gravity (25°C): 1.055 (± 0.015)
- pH (25°C): 8.2 (± 1.5)
- Chloride content: $\leq 1.0\%$
- Alkali content: $\leq 2.0\%$
- Solubility in water: miscible





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Use

- This grinding aid is used in cement produced, according to SANS 50197-1 (EN 197-1).
- **CHRYSO® VRM 159** is a high performance grinding aid that is specifically formulated for cement grinding in vertical roller mills.

Dosage

- The typical dosage of **CHRYSO® VRM 159** lies between 0.2 kg and 0.8 kg per tonne of fresh feed. (Industrial trials are required to determine the optimum dosage.)
- **CHRYSO® VRM 159** is a ready to use liquid grinding aid. It is recommended to add the grinding aid with the cooling water, in front of the rollers.

Storage

- **CHRYSO® VRM 159** 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 -5°C.

Packaging

- Bulk tanker loads
- 1000 ℓ containers

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 user's working conditions are not known by CHRYSO, the information supplied on this safety data sheet is based on CHRYSO's current level of knowledge and on national and community regulations. CHRYSO® VRM 159 must not be used for any purposes other than those specified under section 1 (identification of the substance/preparation and the company) without first obtaining written instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties. The contents and format of this material safety data sheet are in accordance with EEC Commission Directive 2001/58/EC.

