

GRINDING AIDS

Master Format #: 00 00 00

EUCEM™ CGA 4D-5

CEMENT GRINDING AID



EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Available in 55 gal (208 L) drums, 264 gal (1000 L) totes, and bulk

SHELF LIFE

12 months

SPECIFICATIONS/COMPLIANCES

ASTM C465

TECHNICAL INFORMATION

Aqueous Solution

Freezing Point: -16.6 °F (-27 °C)

Odor: Mild Vinegar Odor

Viscosity at 68°F (20°C): 5 - 15 cps

DESCRIPTION

EUCEM CGA 4D-5 is a polyethanolamine acetate based grinding specifically formulated to improve the grinding of minerals and is particularly recommended for grinding Portland cement. EUCEM CGA 4D-5 is very effective in improving cement flow characteristics and preventing pack set.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Mill production is increased up to 20% depending on the efficiency of the equipment and the characteristics of the material to be ground.
- Grinding energy requirements and therefore grinding costs are reduced.
- The particle size distribution of the ground cement is improved, resulting in a more thorough hydration.
- Improved performance in both closed and open circuit systems at equal specific surface area or equal sieve residues.
- The mechanical strengths of cements are maintained or increased at all ages.
- Bulk density is increased.
- Powder flow characteristics are significantly improved before, during and after storage.
- Pack set tendencies and coating are substantially reduced.
- The risk of false set is reduced due to the lower grinding temperatures.

PRODUCT SPECIFICATION

% Solids (ASTM C494)	Specific Gravity @ 77°F (25 °C) (ASTM D1298)	pH per Electrode @ 77°F (25 °C)
67.0 - 71.0	1.132 - 1.169	5.5 - 6.5

DIRECTIONS FOR USE

DOSAGE

The dosage range is from 0.40 lb per short ton (0.2 kg per metric ton) to 1.0 lb per short ton (0.5 kg per metric ton) of cement (active ingredients basis). Industrial trials are required to determine the optimum dosage. Dosage levels in excess of 2.0 lb per short ton (1.0 kg per metric ton) can cause dust emissions and should be avoided.

PROCEDURE

EUCEM CGA 4D-5 may be introduced directly into the mill or onto the feed conveyor belt. A dosing pump is required to introduce the correct dosage into the mix. Our field technicians are ready to provide advice and assistance in the use of product.

PRECAUTIONS/LIMITATIONS

- Store EUCEM CGA 4D-5 at temperatures above 32°F (0°C). If the product freezes, its properties can be recovered after thawing and agitating thoroughly.
- Do not store the product at temperatures above 100°F (38°C) for long periods.
- Refer to Safety Data Sheet for additional information.

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