

GRINDING AIDS

Master Format #: 00 00 00

EUCEM™ CGA 5A

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

Ethylene Glycol Content: < 0.1%*

Freezing Point: 20.5 °F (-6.5 °C)

Odor: Characteristic

Viscosity at 68 °F (20 °C): 3 - 7 cps

* below the de minimus level, therefore not reportable under Section 313 of the Emergency Planning and Community Right to Know Act (also known as the "Toxics Release Inventory") and 40 CFR Part 372.

DESCRIPTION

EUCEM CGA 5A is a technical grade diethylene glycol which has been proven to be a cost effective additive for the grinding of Portland cement. Depending on cement and plant characteristics, EUCEM CGA 5A is also effective in improving cement flow characteristics and preventing pack set.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Mill production is increased up to 15% 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 improved before, during and after storage.
- Pack set tendencies and coating are 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)
95.0 - 100.0	1.113 - 1.123	6.5 - 10.0

DIRECTIONS FOR USE

DOSAGE

The dosage range is from 0.40 lb per short ton (0.2 kg per metric ton) to 1.2 lb per short ton (0.6 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 5A 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 5A 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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