

MasterCem[®] GA 1310

(formerly Cementium 1310 GA)

High Performance Cement Additive to Increase Grinding Efficiency and Inhibit Pack Set of Cement

DESCRIPTION

MasterCem GA 1310 is specially formulated as a high performance grinding aid and pack set inhibitor for Portland cement and other hydraulic cements. It is based on modified hydroxylated compound mixtures

MasterCem GA 1310 is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

RECOMMENDED USES

- Ordinary Portland cement
- Other Hydraulic cement

The special characteristics of **MasterCem GA 1310** allow it to be effectively used in the cement plants that constantly have problems with hard and hot clinkers.

For additional information on **MasterCem GA 1310** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

FEATURES AND BENEFITS

MasterCem GA 1310 effectively reduces the agglomeration between cement particles inside the cement mill. It is one of the most effective dispersants that improves the efficiency of grinding process by reducing the surface energy forces of cement particles and creating electrostatic repulsion between cement particles. This phenomenon contributes to the following:

- Increased cement mill output at the same cement fineness from 8% to 30%.
- Reduced total cement grinding costs per ton of cement.
- Improved cement strength by improving the cement particles size distribution.
- Improved cement dry flowability.
- Reduced cement mill grinding temperature which can help in maintaining the quality of cements.

PERFORMANCE TEST DATA

Aspect	Light Brown Liquid
Relative Density	1.09 ± 0.02 at 25° c
pH	≥ 6

DOSAGE

The typical dosage rate for **MasterCem GA 1310** is as per the table below:

Type Cement	of Blaine Surface Area (cm ² /gram)	Dosage Rate (gram/ton)
Ordinary Portland	2800- 3200	150-300
Ordinary Portland	3200-3500	200-400
Other Hydraulic cements	3500-4000	200-400
Other Hydraulic cements	>4000	300-500

The grindability of cement is influenced by the chemical and physical composition of the basic ingredients of the cement, grinding process and clinker characteristics. Trial at the laboratory scale is recommended to determine the optimum dosage required to achieve any specific requirement.

APPLICATION

MasterCem GA 1310 can be added at the clinker feed conveyer belt or directly into the cement mill's first compartment. A proper dosing pump is required to ensure the correct dosage into the cement for obtaining the optimum performance. Our technical supports are available to provide assistance in the use of **MasterCem GA 1310** with the manual, automatic or computerized dispensing system.

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PACKAGING

MasterCem GA 1310 is supplied in 225 kg drums, or in bulk on request.

STORAGE /SHELF LIFE

MasterCem GA 1310 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original packaging. If found to be frozen, thaw it at 20°C and reconstitute by stirring.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local BASF representative.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

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NOTE

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