



The Chemical Company

CEMENTIUM™ 1300 GA (Formerly known as Cementium 100)

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

DESCRIPTION

GEMENTIUM 1300 GA is a ready-to-use liquid surfactant formulated as the cost effective grinding aid and pack set inhibitor for Portland cement and other hydraulic cements. It is an aqueous solution of modified hydroxylated compounds.

GEMENTIUM 1300 GA is one of the most effective dispersants that improves the efficiency of cement grinding process by reducing the surface energy forces of cement particles which normally cause agglomeration.

GEMENTIUM 1300 GA is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

FIELDS OF APPLICATION

- Ordinary Portland cement.
- Other Hydraulic cements.

For additional information on **GEMENTIUM 1300 GA** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

FEATURES AND BENEFITS

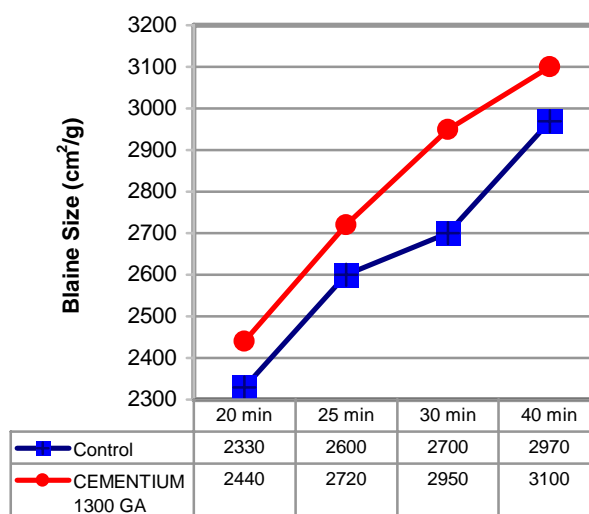
GEMENTIUM 1300 GA considerably reduces the agglomeration between cement particles inside the cement mill. This phenomenon contributes to the following:

- Increased cement mill output at the same cement fineness from 6% to 20%.
- Reduced total cement grinding costs per ton of cement. Normally from 4% to 10%.
- Improved early and late strength of cement due to better cement particles size distribution.
- Reduced Pack Set index due to improved cement flowability.

TYPICAL PERFORMANCE DATA

GEMENTIUM 1300 GA increases the efficiency of cement grinding.

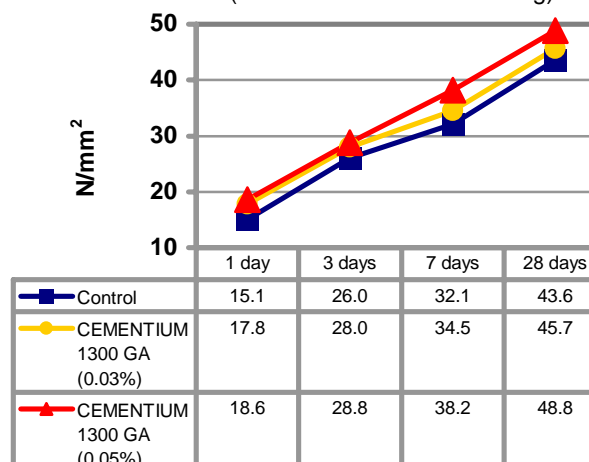
Cement Grindability Performance



TYPICAL PERFORMANCE DATA

GEMENTIUM 1300 GA improves the strengths of cement.

Compressive Strength Development with CEMENTIUM 100
(Blaine size 3000-3200 cm²/g)



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APPLICATION

Dispensing

GEMENTIUM 1300 GA 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 **GEMENTIUM 1300 GA** with the manual, automatic or computerized dispensing system.

DOSAGE

The typical dosage rate for **GEMENTIUM 1300 GA** is as per the table below:

Type of Cement	Blaine Surface Area (cm ² /gram)	Dosage Rate (gram / ton)
Ordinary Portland	2800 – 3200	250 – 400
Ordinary Portland	3200 – 3500	300 – 500
Other Hydraulic cements	3500 – 4000	300 – 500
Other Hydraulic cements	> 4000	400 – 800

The grindability of cement is influenced by the chemical and physical composition of the basic compositions 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.

PACKAGING

GEMENTIUM 1300 GA is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

SHELF LIFE

GEMENTIUM 1300 GA 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.

PRECAUTIONS

GEMENTIUM 1300 GA is not a fire or health hazard. Spillages should be washed down immediately with cold water.

For detailed health, safety and environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.