

NRG[®] Basic Grinding Aid

Basic Grinding Aid

Product Description

NRG[®] is a chemical formulation of polyalcohols supplied as a liquid miscible with water. It has the following characteristics:

- Specific Gravity: 1.14 - 1.18
- pH: 8.5 - 10.5
- Viscosity: 20 – 50 cps

Handling

NRG may be sprayed as received into the mill's first compartment or added onto the clinker conveyor belt. Dilution with up to 8 parts water is recommended to ensure greater proportioning accuracy and better distribution of NRG.

Suitable proportioning pumps with adjustable flow rates should be used for consistent performance of the additive.

Addition Rates

The dosage rate of NRG will depend on the fineness and the reagglomeration characteristics of each cement. Typical dosage rates will vary from 0.02% - 0.06% by weight of cement for Types I & II cements and from 0.04% - 0.08% by weight of cement for Type III cements.

The optimum dosage rate must be determined during full scale cement mill tests.

Technical Services

Field Engineers from GCP are available to assist in laboratory and mill test evaluations of NRG. Complete testing equipment and methods for analyzing mill performance and pack set index are also available during plant trials.

Product Advantages

- Improved pack set
- Increased cement flowability
- Reduced grinding costs

Typical cement mill output increases with NRG versus Blank.

Dosing Equipment

GCP grinding aids should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Specification Compliance

NRG is approved for use under ASTM C 465 specification as a non-harmful, processing addition for cements.

Packaging

NRG is supplied in 210 L (55 gal) drums, or in bulk by tanker trucks. It contains no flammable materials.

Notification of Reportables

GCP has a Product Stewardship Campaign that oversees product introductions to ensure regulatory compliance and quality assurance for our products. As part of this campaign, GCP believes it is important to notify your company of reportable materials that are in our products. The grinding aid NRG contains Ethylene Glycol (EG). EG is defined as a reportable material under SARA Title III regulations. GCP wants to notify you of this so that you may assess your reporting responsibilities. As a reference, please use GCP's SDS (Safety Data Sheet) to assist you in the management of these reporting requirements.

For more information, please call (617) 876-1400 and ask for our Environmental Health and Safety Department.