

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

Product Advantages

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

Typical cement mill output increases with NRG[®] versus Blank.

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.

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.

ca.gcpat.com | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

NRG is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 475, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This document is only current as of the last updated date stated below and is valid only for use in the Canada. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2024-06-21

ca.gcpat.com/solutions/products/nrg-basic-grinding-aid