

# MTDA<sup>®</sup> Grinding Aid Pack Set Inhibitor

Grinding Aid/Pack Set Inhibitor

---

## Product Description

MTDA<sup>®</sup> is a special chemical formulation of polyalcohols supplied as a non-toxic opaque liquid miscible with water. It has the following characteristics:

- Specific Gravity: 1.10 - 1.11
- pH: 7 - 12
- Viscosity: 90 cps @ 24°C

## Handling

MTDA 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 MTDA.

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

## Addition Rates

The dosage rate of MTDA will depend on the fineness and the re-agglomeration characteristics of each cement. Typical dosage rates will vary from 0.01% - 0.05% 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.

## Product Advantages

- Increased mill output at same cement fineness
- Reduced grinding costs
- Improved cement strengths
- Increased cement flowability
- Easy and safe handling Typical cement mill output increases with MTDA versus Blank as shown in the Table on back.

## Dosing Equipment

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

## Specification Compliance

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

## Packaging

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

## Storage

Protect from freezing. Once frozen, the product should be thawed out slowly and re-mixed thoroughly prior to use.

## Technical Services

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

## MTDA vs Blank – Typical Cement Mill Output

TYPES OF CEMENT	GRINDING AID USED	DOSAGE RANGE (%)	RELATIVE MILL OUTPUT OF SAME CEMENT FINENESS (%)	TYPICAL PACK SET INDEX	TYPICAL POWER CONSUMPTION (KWH/T)
I & II	Blank MTDA	Nil 0.01 -0.05	100	50	43
			108 - 120	12	34
III	Blank MTDA	Nil 0.04 -0.08	100	70	54
			115 - 140	15	43

## gcpat.com | North America Customer Service: 1 877-4AD-MIX1 (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.

MTDA 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., 62 Whittemore Avenue, Cambridge, MA 02140 USA.

In Canada, 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 United States. 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](http://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: 2021-02-05

[gcpat.com/solutions/products/gcp-grinding-aids/mtda-grinding-aid-pack-set-inhibitor](http://gcpat.com/solutions/products/gcp-grinding-aids/mtda-grinding-aid-pack-set-inhibitor)