

MTDA[®] Grinding Aid Pack Set Inhibitor

Grinding Aid/Pack Set Inhibitor

Product Description

MTDA[®] 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

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.

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.

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

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