

MYK Grind CAT 18

(Cement Grinding Additives)

Technical Data Sheet

Product Description:

MYK Grind CAT 18 is an aqueous solution of an amine salt with the following Specification.

Specifications:

- **Specific Gravity:**
1.130 - 1.160
- **Insoluble:**
0.2% max.
- **PH:**
8 - 10 @ 27°C
- **Viscosity:**
Maximum 30 Seconds using B4 Cup @ 27°C
- **Foaming Tendency:**
None.

MYK Grind CAT 18 is one of the most effective dispersants yet developed for use as a grinding aid for Portland cement and other hydraulic cements.

MYK Grind CAT 18 greatly improves the efficiency of the grinding process by reducing the surface energy forces which cause agglomeration of the newly fractured cement particles.

MYK Grind CAT 18 is effective in both open circuit and closed circuit cement mills.

Advantages:

- ***Increased mill output at same cement fineness:**
- ***Reduced grinding costs:**

The increased mill output with MYK Grind CAT 18 at same cement fineness and energy consumption provides savings through lower grinding costs per ton of cement.

*Higher Cement Strengths:

MYK Grind CAT 18 significantly increases compressive and flexural strengths of cements, particularly at early ages. Increases as high as 12% are not uncommon; however the average of all tests for all ages is 8%.

*Increased Cement Flow Ability:

The dry dispersive action of MYK Grind CAT 18 results in vast improvements in cement flowability characteristics. The improved flowability of cements with MYK Grind CAT 18 results in faster loading and unloading times of bulk tankers.

*Greater Bulk Density:

MYK Grind CAT 18 increases the bulk density of cement by up to three percent, providing increased storage capacities of silos and bulk carriers.

Handling:

MYK Grind CAT 18 may be dispensed as received. However, dilution with 5 parts water or more is recommended to ensure greater proportioning accuracy and better additive distribution. Suitable dispensing pumps with adjustable flow rates should be used for optimum performance. Diluted MYK Grind CAT 18 may be added onto the clinker conveyor belt or sprayed into the mills first compartment

Addition Rates:

MYK Grind CAT 18 typical dosage rates will vary from 0.02% - 0.08% by weight of cement for Types I & II cements and 0.04% - 0.10% by weight of cement for Type III cements.

Blaine Surface Area (Cm ² /gram) %	MYK Grind CAT 18 Dosage Rate by weight of cement	Cement Type
2700 - 3500	0.02 - 0.06	I
3500 - 4500	0.03 - 0.08	II
over 4500	0.04 - 0.10	III

Dosing Equipment:

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

Packaging:

MYK Grind CAT 18 is supplied in 200 Kgs HDPE Drum 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.

Use before: Six months from the date of manufacturing if stored under dry and shaded area and if sealed pack

Technical Services:

On request, Field Engineers from MYK Schomburg India Pvt. Ltd are available to assist in laboratory and mill test evaluations of MYK Grind CAT 18.

Quality Policy:

MYK Schomburg is committed to quality performance. We will satisfy the market needs with innovative products which maximizes performance and value.

Technical Support:

Technical information regarding Schomburg range of products can be obtained from the technical cell of MYK Schomburg.

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