



TEKNACEM 300

Dry grinding adjuvant



DESCRIPTION

TEKNACEM 300 is a liquid additive in aqueous solution based on modified and salified linear amines that allows to improve the grinding capacity of ball mills. It acts by discharging the particle attraction forces produced during grinding, avoiding the agglomeration of the fines. It is indicated as an adjuvant in the dry grinding of all minerals and particularly in the grinding of cements, to which it gives greater finesse and greater smoothness by reducing their packing during storage.

GENERAL CHARACTERISTICS

TEKNACEM 300 keeps the ground bodies and armor of the mill clean, increasing their refining efficiency. With the same production, it reduces the energy required and the wear of all parts of the system and maintenance interventions. With the same amount of energy consumed, it increases productivity by 10-20%.

On cements, the following advantages are highlighted:

- Increments the specific surface of the finish;
- Improves the homogeneity of cement;
- It gives the cement a good fluidification and reduces the pack-set during storage;
- Improves the wettability of cement and its hydration;
- Improves mechanical resistance;
- Reduces the danger of false grip.

HOW TO USE

TEKNACEM 300 is ready to use and is compatible with all other cement additives of TEKNA CHEM SpA. It is placed at the entrance of the mill together with the raw materials through a special dosing pump. In the event that the mill has a variable supply, the pump can be correlated by an automatic adjustment system.

SPECIFICATIONS

Liquid physical state

Amber color

Density at 20°C 1,08 ± 0,02 g/cm³

Ph at 20°C 8 ± 1

Absent chlorides

Temp. Boiling 110 °C

Temp. freezing < 5 °C

Negative flammability test

Solubility in total water

DOSAGE

The standard dosage of TEKNACEM 300 is 0.02-0.04% by weight on the weight of cement.

Recommended dosage: 0.03% p.p. on cement weight.





Normally the dosage is directly proportional to the content of clinker or the hardest raw materials to grind.

Surdosaggio:

A dosage double that indicated can cause excessive fluidification of the cement inside the plant downstream of the mill, the delay of the first resistances and an increase in compression resistances to 28 days.

FIELDS OF APPLICATION

TEKNACEM 300 is normally used in dry ball mills as an adjuvant grinding of all minerals for their refining below 200 μ and in particular carbonates, feldspars, sulphates, quartz, gypsum and cement.

In grinding it gives advantages over all types of cement, especially on supercements with a high clinker content.

PACKS

Bulk in tank.

In metal drums of 200 Kg.

In tanks of 1050 Kg.

STORAGE

The product should be stored as close as possible to the point of use, protected from the sun and frost.

In the original packages well closed and at temperatures between +5 ° C and + 35 ° C is valid for 12 months. If it were to remain at temperatures below 0 ° C for a long time, separations by crystallization may occur, in which case the product can be used after heating to +20 ° C.

LEGAL

The information contained in this technical sheet, although representing the most advanced stage of knowledge, does not exempt the user from performing accurate preliminary tests in their conditions of use and operation. We therefore decline any responsibility for the improper use of the product.

