



DATA SHEET FOR STAREX 300: GRINDING AID AND PERFORMANCE ENHANCER

Introduction:

The product STAREX 300 was developed specifically for the sector of the CEMENT industry that requires improved mill performance and higher strength at early ages.

Mode of Action:

The product is a highly ionized salt of an organic base, the resulting electrostatic attraction between broken particles in the mill system is reduced or removed. The result is that agglomeration within the mill is reduced and more energy is available for actual milling of particles.

The general physical result of this action is that the particle size distribution is increased, with increased material falling into the fine fractions, or the mill feed can be increased without a change in resulting particle size distribution.

The product accelerates calcium silicate hydration and delivers significantly improved strength performance to the user at early ages.

Benefit:

The major advantage of this product is that it is used as a dry powder; this reduces the costs and problems associated with transporting, storing and managing liquid chemicals.

Dosage rate:

The addition rate of the product is normally in the range of between 0.02% - 0.03% of total feed material.

Chemical Composition:

Organic salts – 50%
Amorphous Silica – 30%
Salts of ammonia – 20%

Appearance:

Grey powder which varies from 2 mm particles to dust.

Flashpoint:

The product is non-flammable.

Odour:

May have a faint odour of ammonia when packaging is initially opened.

Toxicity:

The product is non-toxic under normal exposure conditions. It should not be handled extensively without rubber gloves. In the event of ingestion patient should be referred to a doctor.

Storage:

Product should be stored in a dry ventilated area.

Dispensing:

Product should only be dispensed using STAREX dispensers.

Delivery:

Product is delivered in 25kg polypropylene bags with plastic inner liner or in 1 ton bulk bags.