



KETTLITZ-TAIC 70 F

- technical leaflet -

Kettlitz-TAIC 70 F is the 70 % preparation of triallyl isocyanurate (TAIC) on extremely fine silica as carrier in powder form.

TAIC 70 F can be recommended especially as co-activator for peroxide curing, when excellent physical properties are to be reached, especially very low compression-set values even after aging and under extreme conditions. TAIC 70 F proved to be effective within all kinds of different fluor elastomers, HNBR, silicone rubber and EAM (VAMAC); it can also be used with other polymers such as EPDM/EPM, EVA etc.

Due to the very low melting point of approximately 24 °C, the pure TAIC can have a solid/crystalline or even liquid form, depending on the room temperature. Therefore the handling will be considerably improved when using the 70 % Kettlitz preparation. Even in soft, low-viscous compounds an optimal dispersion is guaranteed by the use of a very fine silica grade.

At low temperatures (below 10 °C) the product tends to crystallize, and, depending on the storage conditions (temperature and time), the state of aggregation of TAIC 70 F may change, which leads to caking of the powder. The product will easily revert to a free-flowing powder by mechanical influence. During processing resp. mixing, when the very low melting point is reached, the agglomerates decompose immediately anyway. Consequently dispersion problems are not to be expected and caking, which might occur, does not influence the product quality negatively.

To maintain the physical form of the product, we recommend storing TAIC 70 F at temperatures between 10 and 20 °C in a well-ventilated area protected against sunlight.

As dosage of peroxide and co-activator we recommend approximately 2 : 1 (peroxide to TAIC 70 F) on a basis of 100 % active substance.

Properties

Chemical Characteristics	triallyl isocyanurate (70 %) on carrier
Appearance	white powder, free-flowing
Density at 20 °C (g/cm ³)	approx. 1.4 (mathematically)
Ash Content (%)	27.5 ± 2.5
Bulk Density (g/cm ³)	approx. 0.7
Physiol. Behavior	see safety data sheet
Storage Stability	3 years under suitable storage conditions
Packing	cardboard boxes of 12,5 kg each with PE innerliner