



KETTLITZ-TAIC 50 KETTLITZ-TAIC 70

- technical leaflet -

TAIC 50 and 70 are 50 % resp. 70 % preparations of triallylisocyanurate (TAIC) on extremely fine silica as carrier in powder form.

TAIC 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 has proved to be effective within all kinds of different fluor elastomers, HNBR 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 50 and 70 % Kettlitz preparation. Besides, regarding the dispersibility, the powdery preparations show much better results compared to the liquid product.

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, especially TAIC 70, 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 50 resp. TAIC 70 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 50 or 70) on a basis of 100 % active substance.

Properties

	TAIC 50	TAIC 70
Chemical Characteristics	triallylisocyanurate (50 or 70 %) on carrier	
Appearance	white powder, free-flowing	
Density at 20 °C (g/cm ³)	approx. 1.48 (mathematically)	approx. 1.36 (mathematically)
Ash Content (%)	46.5 ± 2.0	27.5 ± 2.5
Bulk Density (g/cm ³)	approx. 0.5	approx. 0.7
Physiol. Behavior	see safety data sheet	
Storage Stability	3 years under suitable storage conditions	
Packing	cardboard boxes of 15 kg each, with PE innerliner	