



KETTLITZ-Aktioli

- technical leaflet -

Aktioli is an activator for white fillers (e. g. silica, Kaolin) especially useful because of its effect to reduce the danger of scorch at lower temperature. In comparison to activators like TEA, DEG and PEG Aktioli extends scorch times at the temperature range between 80 and 130 °C. At final curing temperatures, however, Aktioli is activating the curing speed and optimum results may be achieved. Safe mixing temperatures and excellent results for extrusion and injection molding will be obtained by using Aktioli.

Aktioli is supplied in very soft granules and can be incorporated into rubber compound independent on the mixing temperature. Compared with liquid activators Aktioli will promote easy and clean handling as well as exact dosage and incorporation.

Aktioli is non-staining and can also be used for transparent rubber parts. It contains no amines, therefore no nitrosamines will be formed. In comparison to liquid activators like DEG, TEA and PEG the use of Aktioli will cause higher hardness. The extended scorch times are important when using super- or ultra-accelerators.

Due to our experience we recommend a dosage of 5 % Aktioli calculated on the amount of silica.

The function of Aktioli and the results may depend on the accelerator system due to expected synergism. Another synergism was found when Aktioli was applied together with coupling agents (silanes), the so-called "synergism Aktioli/Silanes" which causes excellent physical properties.

Properties

Chemical Characteristics		combination of high boiling alcohols
Appearance		white granules
Density at 20 °C	(g/cm ³)	approx. 1.42 (mathematically)
Ash	(%)	29.5 ± 2.0
Physiol. Behavior		see safety data sheet
Storage Stability		3 years under suitable storage conditions
Packing		paper bags containing 25 kg net