

Aktioplast® M

Processing Promoters

Function

Processing promoter reducing viscosity and dispersing fillers, especially for compounds based on natural rubber and blends of natural rubber

Product description

Composition:	Activated combination of zinc salts of high-molecular-weight, mainly saturated fatty acids
Appearance:	brown pastilles
Density, 20 °C:	approx. 1.10 g/cm ³
Ash content:	12-14 %
Melting range:	95-110 °C
Solubility:	insoluble in water, partly soluble in aromatic hydrocarbons
Physiological properties:	see safety data sheet

Use

Mode of action:	Aktioplast M has a viscosity reducing effect in natural and isoprene rubber and their compounds. In a temperature range from 60-150 °C, the reduction of viscosity is obtained by a combination of specially selected fatty acids in zinc salts with a metal complex as activator. The natural chain length distribution of rubber, such as it is shown in a mole weight distribution curve, is largely maintained. Only the part of the rubber with a higher molecular weight is reduced. The mastication effect of Aktioplast M is stopped by the addition of carbon black or fillers. A special advantage of Aktioplast M is the saving of one mixing step, as there is no storage time of the masticated rubber required. As a result of the improved solubility of the fatty acid zinc salts in the rubber Aktioplast M has a favorable effect on the filler dispersion. The incorporation of the fillers is accelerated. Mixing energy is reduced, and mixing time can be saved.
Processing:	Aktioplast M can be added either in the internal mixer together with the polymer at the beginning of the mixing processor on the mill to the rubber.
Dosage:	in NR, IR, BR: 2-3 phr

Application: Processing promoter reducing viscosity and dispersing fillers. For tires, rubber-to-metal bonding, primarily for compounds based on natural rubber and rubber blends.

Packing

20 kg Paper bags on 1000 kg skid

Storage stability

In original closed containers under cool and dry conditions 730 days from date of production.

Handling

For additional handling information on Aktiplast M please consult material safety data sheet.

Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.



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