



KETTLITZ-Antitack BTO-35

- technical leaflet -

Magnesium stearate dispersion of high efficiency for the treatment of rubber sheets, stripes, granules and blanks in batch-off systems (dip tank or spraying system) as well as for Barwell equipment.

Antitack BTO-35 does not contain any heavy metal ions and can therefore replace zinc stearate dispersions to prevent environmental pollution. This antitack agent was developed considering latest ecological aspects.

The fine magnesium stearate particles combined with an outstanding dispersion stability of the antitack agent (slight movement of the bath is recommended) show after drying on the surface of the compound an evenly spread, almost transparent film. **Additional special components optimize the slip properties of treated rubber sheets and stripes (such as feed zone behavior when treating the rubber compound in the second mixing stage or further production).**

The magnesium stearate used for Antitack BTO-35 remains on the surface of treated unvulcanized rubber sheets or strips and already melts at approx. 100 °C. After melting it penetrates into the rubber compound and does neither influence physical properties nor rubber-metal (or rubber-textile) bonding, if recommended dilution ratios are considered.

The antitack agent can therefore be used for many different applications.

Antitack BTO-35 is also suitable for the treatment of profiles or hoses after extrusion to avoid sticking before and during vulcanization (e. g. in autoclaves).

In our opinion the most relevant properties of Antitack BTO-35 are:

- the surface of treated rubber parts seems to be clean, even at a dilution ratio of 1 : 10, because of the very fine particle size of the used magnesium stearate and the excellent stability of the dispersion
- no foaming problems
- pollution of batch-off-equipment (crusts, "stalactites") is minimized compared to the use of "normal" anti-tack agents based on metal stearates or products containing fillers (e. g. silica, chalk, Bentonite)
- Antitack BTO-35 is very efficient which allows high dilution rates. This reduces material costs and results in less cleaning periods

Special additives provide the possibility to measure the concentration of the dispersion by conductivity. Therefore the work-intensive determination of the dry residue can be nearly eliminated. With an automatic dosing system connected to the conductimeter a stable concentration of the antitack dilution can be achieved which will result in an undisturbed production process.

Antitack BTO-35 should be stirred before use. It is also recommended to stir the Antitack BTO-35 concentrate after longer storage again. A decrease in viscosity will be noted (thixotropic effect).

Dilution ratio for first tests: 1:15 (Antitack BTO-35:H₂O)

Properties

Chemical Characteristics		magnesium stearate in combination with detergents, antirust and antifoam agents
Appearance		white paste of medium viscosity
Density at 20 °C	(g/cm ³)	approx. 1.0 (mathematically)
Dry Matter (0.5 g/15 min./109 °C)	(%)	29.0 ± 2.5
pH-value at 20 °C (dilution ratio 1 + 10)		9.5 ± 1.0
Physiol. Behavior		see safety data sheet
Storage Stability		2 years in originally sealed drums
Packing		plastic drums containing 100 kg net or in one-way containers with 800 kg net content