KETTLITZ-Haftolat
KETTLITZ-Haftolat/P

- technical leaflet -

Haftolat or the dry form, Haftolat/P, are very effective process aids produced from EPM rubber. Independent of the polymer, they should be used where difficult rubber compounds are to be processed. Haftolat and Haftolat/P work as internal lubricants and give excellent results even at small dosage.

Due to our knowledge we recommend a dosage of 1–2 % of Haftolat or Haftolat/P calculated on the total rubber compound, to achieve the best results. Excellent results will be obtained especially in rubber compounds with high shore hardness intended to be cured in injection molding systems or having generally difficult rubber compound flow.

Haftolat and Haftolat/P can lower the mixing temperature of compounds and prevent heat build up which is very important for chloroprene compounds. The compound flow of over-stored or slightly scorched rubber compounds based on chloroprene can be improved by the addition of Haftolat or Haftolat/P. The use of 1 % Haftolat resp. Haftolat/P can reduce the mixing temperature up to 15 °C.

Very good results are obtained with Haftolat or Haftolat/P in the production of sulfur master batches where it acts as dispersing agent for the sulfur. Haftolat or Haftolat/P is neutral and does not have any influence on curing, neither with sulfur nor peroxides. Rubber-metal-bondings are also not affected by Haftolat or Haftolat/P. Injection times, of high volume rubber parts, will be reduced especially.

With the exception of silicone rubber, the compatibility with all other rubber types is good. In EPDM compounds it is not possible to identify Haftolat or Haftolat/P by IR spectroscopy.

For general use we recommend the dry liquid product Haftolat/P because it is easier to handle.

Properties

		Haftolat	Haftolat/P
Chemical Characteristics		EPM solution	75 % Haftolat plus 25 % silica
Appearance		amber sticky liquid, of high viscosity	amber powder
Color	(ASTM D 1500)	max. 2	
Density at 20 °C	(mathematically)	approx. 0.89	approx. 1.08
Bulk Density	(g/ml)		approx. 0.4
Ash Content	(%)		27.0 ± 2.5
Viscosity at 50 °C	(mPas)	8 000 ± 2 500	
Physiol. Behavior		see safety data sheet	
Storage Stability		10 years under suitable storage conditions	3 years under suitable storage conditions
Packing		drums containing 175 kg net	paper bags containing 25 kg net