KETTLITZ-Mediaplast NB-7

- technical leaflet -

Kettlitz-Mediaplast NB-7 is a special diisononyl dicarboxylic acid ester which can replace existing phthalate plasticizers in compounds based on polar rubbers like NBR, HNBR, CR, ACM, VAMAC etc.

Mediaplast NB-7 shows minor volatility at an extremely low setting point. Therefore this plasticizer is suitable to produce rubber articles with high heat resistance and excellent low temperature properties as well.

Within the rubber compounds mentioned above, Mediaplast NB-7 reacts similar to the known phthalate plasticizers. However, there is no duty of declaration according to the raw material lists of some automotive manufacturers (current regulations, January 2005). Compared to other possible alternatives like DOS and DOA, Mediaplast NB-7 shows a considerably higher compatibility within the polymers mentioned above. Depending on the ACN and filler content, usually more than 30 phr of Mediaplast NB-7 can be incorporated into carbon black filled NBR compounds.

Properties

Chemical Characteristics		saturated diisononyl ester
Appearance		bright, transparent liquid
Color	(HAZEN)	max. 40
Density at 15 °C	(g/cm³)	0.952 ± 0.005
Refractive Index n_D^{20}		1.462 ± 0.005
Viscosity at 40 °C	(mm²/s)	20 ± 3
Viscosity at 20 °C	(mm²/s)	approx. 50
Flash Point	(°C)	> 200
Setting Point	(°C)	< -50
Aniline Point	(°C)	approx. -40
Neutralisation Number	(mg KOH/g)	< 0.1
Volatility (2 h at 160 °C)	(%)	< 0.5
Physiol. Behavior		see safety data sheet
Storage Stability		10 years under suitable storage conditions
Packing		drums containing 200 kg net