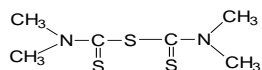


TMTM MASTERBATCH

Thiuram accelerator

ACTIVE MATERIAL



Tetramethyl Thiuram
Monosulfide

C₆H₁₂N₂S₃

M.W.: 208

CAS: 97-74-5

EINECS: 202-605-7

PROPERTIES:

Mixland+® TMTM masterbatch is generally used as a secondary accelerator or as a booster for sulfenamides to achieve faster cure rates.

Mixland+® TMTM masterbatch can be used as a booster for thiazoles and guanidines in general purpose elastomers as well. Its main application is in NBR in combination with MBT or MBTS where it acts as an activator and gives excellent balance of physical properties. In comparison with other thiurams, Mixland+® TMTM masterbatch has very good processing safety, high curing activity and absolutely no discoloration. Being a monosulfide, TMTM will not cure completely without sulfur. It increases the cure rate and the torque, like other thiurams, but with a much smaller reduction in scorch time.

Mixland+® TMTM masterbatch is also a primary accelerator for CR together with DPG or DOTG. Especially in mercaptan-modified polychloroprene rubbers, it may be used together with DOTG and sulfur to give very safe processing compounds.

Mixland+® TMTM masterbatch is suitable for NR, IR, BR, SBR, NBR, IIR and EPDM.

As an ultra-accelerator used together with sulfur, Mixland+® TMTM masterbatch is relatively high (105° C) in critical vulcanising temperatures, and fairly safe to process with. Vulcanisation is obtained at temperatures above 135 – 140° C.

APPLICATIONS:

Suitable for transparent and light coloured products, footwear, cables and wires, tyre treads, druggist sundries, sponge, toys, etc.

TYPICAL VALUES:

Melting point: 106°C
Purity: 97%
Specific gravity: 1.38

REMARKS:

Non-staining

Non-discolouring
Slightly blooming

MASTERBATCH

PRODUCT	Active Content (%)	Colour N for Natural P for Pigment	Filtration (microns)	Binder	Mooney ML (1+4) 50° Typical value	Density Typical Value	Shore Hardness
TMTM 80 GA F500	80	Yellow to yellowish* (N)	500	E/AA	35	1.27	61

*depending on natural variation of TMTM

GA: Pellets on ethylene-alkyl-acrylate binder

SAFETY & TOXICITY:

For detailed information, please refer to our Material Safety Data Sheet.

PACKAGING & STORAGE:

PE bags weight : 20 kg net-CP3 pallet : 640 kg net.

Do not pile more than 2 pallets height

Shelf-life : 2 years in its original packaging

Store in a dry and cool place and away from direct sources of heat or sunlight

Compared to a traditional EVA/EP(D)M binder, MIXLAND+® masterbatch allows:

- ✓ Dust free products with a high level of filtration up to 100 µ.
- ✓ Tack free products at room temperature.
- ✓ Lower Mooney viscosity, improving quality of dispersion.
- ✓ Scrap rate reduction thanks to filtration.
- ✓ Wider compatibility with other elastomers.

The information contained in this leaflet is based on tests carried out by our laboratories and data selected from the literature but shall in no event be held to constitute or imply any warranty or undertaking. No liability whatsoever can be accepted with regard to the handling, processing or use of the products concerned, which must in all cases be employed with regard to all relevant regulations and/or legislation in the country or countries concerned.