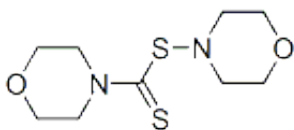


ACTMIX OTOS-80GE F200

Accelerator OTOS

ACTIVE MATERIAL



Morpholin-4-yl
morpholine-4-carbodithioate
 $C_9H_{16}N_2O_2S_2$
M.W.: 248.37
CAS: 13752-51-7
EINECS: 237-335-9

PROPERTIES:

OTOS is a fast vulcanization rate and long scorching time accelerator for NR, BR, SBR, NBR, etc and its vulcanizate has excellent properties such as high tensile strength, small permanent deformation, low compression heat, good elasticity. Combination with benzothiazoles or sulfenamides accelerators can lead to a remarkable synergistic effect and reduce total dosage of accelerators significantly to reduce the cost of rubber mixing. It is a sulfur donor in effective or ineffective vulcanization system. It is an activator which has great activity above 149 °C for high temperature vulcanization. It has excellent vulcanization reversion resistance for high temperature vulcanization of NR.

Combination with TMTD or DM can accelerate vulcanization and lead to ultralow compression set of rubber products.

APPLICATIONS:

Tyre retreading, rubber buffers and other rubber products of excellent dynamic compression set.

TYPICAL VALUES:

Melting point: Min 133 °C
Purity: Min 98%
Ash content: Max 0.4%
Volatile content: Max 0.3%

MASTERS

| PRODUCT | Active Content (%) | Color | Filtration (μm) | Binder | Mooney ML (1+4) 50°C | Density (g/cm ³) |
|--|--------------------|-------|-----------------|----------|----------------------|------------------------------|
| Actmix® OTOS-80GE F200 | 80 | White | 200 | EPDM/EVM | 50 | 1.12 |
| * Binder type can be customized. Except EPDM/EVM, others binders, such as NBR, SBR, AR, ECO also can be available for. | | | | | | |
| SAFETY&TOXICITY: | | | | | | |
| Please refer to related MSDS. | | | | | | |
| PACKAGING&STORAGE: | | | | | | |
| Net weight 25kg/carton lined PE bag; Net weight 600 kg/pallet. | | | | | | |
| Shelf-life: 1 year in its original packaging | | | | | | |
| Stored in a dry and cool place. | | | | | | |

Compared to traditional OTOS powders, Actmix® OTOS-80GE F200 allows:

- Dust free products with a complete filtration up to 100μm, no skin sensitization, health guard of operators.
- Effective guarantee of activity of OTOS due to pre-dispersed masterbatch.
- Tack free products at room temperature, convenience and accuracy on ingredients.
- Lower Mooney viscosity at lower temperature (50 °C), higher quality of dispersion.
- Impurity free, blocked filter free of extrusive products, scrap rate reduction and higher productivity thanks to filtration.
- Wider compatibility with other elastomers.

G: granule, P: plate, E: EPDM binder, N: NBR binder, S: SBR binder, A: ACM binder, EO: ECO binder, F200: filtration and micron number of filter

The information contained in this leaflet is based on tests carried out by our laboratories and data selected from references. Therefore it is not valid legally and does not signify any guarantee to customers of successful applications of the product according to their own formulas. However, our company will offer professional services in technology at utmost to facilitate customers to achieve expected purpose of product applications.

Actmix® OTOS-80GE F200

TECHNICAL DATA SHEET (TDS) version 1.3

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