

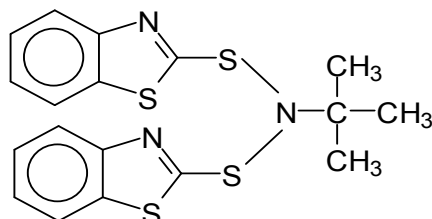
Dusur[®] TBSI

Chemical Name: N-tert-butyl-benzothiazolesulfenimide, (TBSI)

Empirical Formula: C₁₈H₁₇S₄N₃

Molecular Weight: 403.64

Structural Formula:



Physical Form: Crystalline powder, coated powder (CP) and dust-free granulate (G-80).

Technical Parameters:	Dusur [®] TBSI	Dusur [®] TBSI/CP	Dusur [®] TBSI/G-80
Active substance content	min. 93.0 %	min. 92.0 %	75 - 80 %
Melting point	min. 130.0 °C	min. 128.0 °C	
Weight loss, 2 hours at 70 °C	max. 0.50 %	max. 0.50 %	max. 0.50 %
Ash content	max. 0.50 %	max. 0.50 %	max. 0.50 %
Sieve residue 0.150 mm	max. 0.1 %	max. 0.1 %	
Wax-like binder content			18.0 - 22.0 %
Coating oil content		cca 2.0 %	
Specific gravity	cca 1,400 kg/m ³	cca 1,400 kg/m ³	cca 1,300 kg/m ³
Bulk density	cca 330 kg/m ³	cca 330 kg/m ³	cca 570 kg/m ³

Solubility:

Dusur[®] TBSI is soluble in some organic solvents. Insoluble in water.

Application:

Dusur[®] TBSI is a primary amine-based accelerator of sulfur cure of diene rubbers and as that it does not form dangerous N-nitrosamines. It can substitute for MBS, DIBS or DCBS. It exhibits very good storage stability, much better than common used sulfenamides. Dusur[®] TBSI provides the long processing safety, especially in SBR compounds and slow cure rate that are characteristic of secondary amine-based sulfenamide accelerators. It is suitable for difficult processing, highly filled, rubber mixtures. Dusur[®] TBSI provides also very good balanced cure with thick rubber articles, very good adhesion to brass-coated steel cord. Dusur[®] TBSI gives lower heating up during dynamic stress and very good resistance against reversion.

Advantages:

- extended scorch delay;
- slower cure rates (compared to primary amine based sulfenamides);
- slower reversion rates;
- lower heat build-up;
- very good storage stability.

Packaging and Storage:

Dusur[®] TBSI is packed in 4-layer PE-coated paper bags of 25 kg net or in big-bags of 350 - 500 kg. The product is stored and transported on pallets under shrinking film. Storage life in undamaged original packing is one year under the observation of storage condition (covered places at temperatures below +35°C).

The given data are only of an informative character and are not comprehensive. Further information can be obtained:

0106



Producer:

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