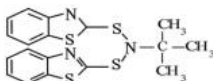


## Rubber Accelerator TBSI

**Chemical Name:** N,N-bis(1,3-benzothiazol-2-ylsulfanyl)-2-methylpropan-2-amine

**Molecular Structure**



**Molecular Formula** C<sub>18</sub>H<sub>17</sub>N<sub>3</sub>S<sub>4</sub>

**Molecular Weight** 403.61

**CAS No.** 3741-80-8

**Specifications** Q/KS167-2012

Items	Specifications
Appearance	Light-white powder
Initial Melting Point, °C Min	128
Heat Loss, % Max	0.50
Ash, % Max	0.50
Residue on 150µm Sieve1, %max	0.1

**Description** TBSI can replace NOBS which is carcinogenic and does not generate the nitrosamines as primary amine-based accelerator. The rubber added with TBSI can obtain good scorch safety and lower vulcanization rate, and show good curing reversion resistance, high modulus and lower heat generation, which optimizes adhesion between rubber and brass coated steel cord. Its physical properties and dynamic properties of cured rubber are similar with NOBS and DCBS cured rubber. It can also replace the blend of primary amine accelerator TBBS or CBS and scorch retarder CTP and be used alone, which makes it ideal for thick articles requiring a balanced cure and provides improved reversion resistance both during extended cure times at elevated temperatures and during product service life.

**Dosage:** NR: 0.5 – 1.5 phr IR: 0.5 – 1.5 phr SBR: 0.5 – 1.5 phr  
NBR: 0.5 – 1.5 phr HNBR: 0.5 – 1.5 phr

**Applications** This product will not generate the carcinogenic substance- nitrosamines which are known more secure from NOBS, DIBS and DCBS under the same operation temperature. It can be used in NR, SBR, Butadiene rubber and IR. Especially apply to the furnace black sizing material with strong acid, showing the much better activity than CBS and NOBS.

**Storage** The product should be stored in the dry and cooling place with good ventilation, avoiding exposure of the packaged product to direct sunlight.

**Packing** In 25kg paper bags with plastic inner.