



**橡胶硫化促进剂  
RUBBER ACCELERATOR**

**WILLING TBBS (NS)**

化学名称

N-叔丁基-2-苯并噻唑次磺酰胺

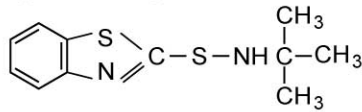
Chemical Name

N-Tertiarybutyl-2-benzothiazole sulfenamide

分子式/Molecular Formula

C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>S<sub>2</sub>

结构式/Molecular Structure



分子量/Molecular Weight

238.37

CAS 编号/CAS NO.

95-31-8

技术指标 /Specifications

项目 / Item	粉料 / Powder	加油粉料 / Oiled Powder	颗粒 / Granule
外观(目测) / Appearance	灰白色粉末(颗粒) / Gray-white powder(granule)		
初熔点 / Initial Melting Point, °C ≥	105.0	105.0	105.0
加热减量 / Loss on Drying, % ≤	0.30	0.40	0.30
灰分 / Ash, % ≤	0.30	0.40	0.30
筛余物 / Residue on 150 μ m Sieve, % ≤	0.10	0.10	\
筛余物 / Residue on 63 μ m Sieve, % ≤	0.50	0.50	\
添加剂 / Additive, %	\	0.0-2.0	\
粒径 / Granule Diameter, mm	\	\	1.0-3.0

**性状 Properties** 灰白色粉末（颗粒）。密度为1.26-1.32。溶于苯、氯仿、二硫化碳、丙醇、甲醇、乙醇，不溶于汽油、水、稀酸、稀碱。

Gray white powder (granule). The density is 1.26-1.32. Soluble in benzene, chloroform, alcohol, insoluble in gasoline, water, acid and alkali with lower concentration.

**用途 Applications** 本品是天然胶、顺丁胶、异戊胶、丁苯胶与再生胶的后效性促进剂，尤其适用于含碱性较强的炭黑胶料。操作温度下安全，具抗焦烧性强、硫化速度快，定伸强度高，能提高合成胶的使用比例。低毒高效，是NOBS理想替代品，具有优异的综合性能，被称为标准促进剂。广泛用于子午线轮胎的生产。可同醛胺、胍类、秋兰姆类促进剂并用，与防焦剂PVI并用时，构成良好的硫化体系。主要用于轮胎、胶鞋、胶管、胶带、电缆的制造生产。

Provides fast cure rate and high modulus development in NR, SBR, BR and blends. Normally used alone or with small quantities of ultra accelerators in tire compounds or industrial rubber products. Low poison and high efficiency. It is good back up for WILLING NOBS. Be regarded as standard accelerator.

**包装 Package** 25kg塑编袋、纸塑复合袋、牛皮纸袋，或集装塑编袋。

25kg plastic woven bag, paper with plastic film bag, kraft paper bag or jumbo bag.

**贮存 Storage** 应单层储存在阴凉干燥、通风良好的地方。包装好的产品应避免阳光直射，重叠堆放将造成产品不正常压缩或颗粒破裂。高湿度或高温会引起产品分解。有效期1年。

The product should be stored in the dry and cooling place with good ventilation, avoiding exposure of the packaged product to direct sunlight. The validity is 1 year.

**说明 Notes** 本产品可以根据客户要求做超细粉末。

The product could be ultrafine powder based on customer accurate requirement.