



**橡胶硫化促进剂  
RUBBER ACCELERATOR**

**WILLING MBT (M)**

化学名称

2-硫醇基苯并噻唑

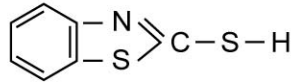
Chemical Name

2-Mercaptobenzothiazole

分子式/Molecular Formula

C<sub>7</sub>H<sub>5</sub>NS<sub>2</sub>

结构式/Molecular Structure



分子量/Molecular Weight

167.26

CAS 编号/CAS NO.

149-30-4

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	淡黄色粉末(颗粒) / light yellow powder (granule)		
初熔点 / Initial Melting Point, °C ≥	171.0	171.0	171.0
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, %	\	1.0-2.0	\
粒径 / Granule Diameter, mm	\	\	1.0-3.0

**性状 Properties** 淡黄色粉末（颗粒），微臭，有苦味，无毒，比重1.42-1.52，熔点171℃以上，易溶于乙酸乙酯、丙酮、氢氧化钠及碳酸钠的稀溶液中，溶于乙醇，不易溶于苯，不溶于水和汽油。贮存稳定。呈粉尘时，爆炸下限为21g/m<sup>3</sup>。

It is light yellow powder (granule) with a little osmyl and taste bitter. The density is 1.42-1.52. Soluble in ethyl acetate, ethanol, solution of NaOH and Na<sub>2</sub>CO<sub>3</sub>, insoluble in benzene, water and gasoline. Good storage stability. Lower explosion limit is 21g/m<sup>3</sup>.

**用途 Applications** 主要用于IR、NR、SBR、NBR、HR与EPDM体系，目前为一种主要的酸性硫化剂，具有中等硫化速度，与其它硫化剂如WILLING DM 和WILLING TMTD等碱性硫化剂并用可以达到更高的活性。其硫化温度低，在橡胶中易分散、无污染，主要用于制造轮船、胶带、胶鞋和其它工业橡胶制品，但不能用做食品材料。

Used as an acid accelerator currently and a medium fast primary accelerator. Imparts excellent aging properties when used both alone and in combination with WILLING DM, WILLING TMTD and many other basic accelerators for higher activity. Its accelerative temperature is low and easily be dispersed with lower pollution. Mainly used in the manufacture of tires, tubes, foot wear, rubber belts and hoses etc.

**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，有效期2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 2 years.

**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