



**橡胶硫化促进剂  
RUBBER ACCELERATOR**

**WILLING ZMBT (MZ)**

化学名称

2-硫醇基苯并噻唑锌盐

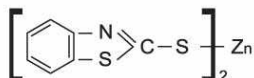
Chemical Name

Zinc 2-mercaptobenzothiazole

分子式/Molecular Formula

C<sub>14</sub>H<sub>8</sub>N<sub>2</sub>S<sub>4</sub>Zn

结构式/Molecular Structure



分子量/Molecular Weight

397.86

CAS 编号/CAS NO.

155-04-4

技术指标 /Specifications

项目 / Item	MZ-5			MZ-15		
	粉料 / Powder	加油粉料 / Oiled Powder	颗粒 / Granule	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)			淡黄色粉末(颗粒) / light yellow powder(granule)		
初熔点 / Initial Melting Point, °C, ≥	200.0	200.0	200.0	200.0	200.0	200.0
加热减量 / Loss on Drying, %, ≤	0.30	0.40	0.30	0.30	0.40	0.30
锌含量 / Zinc Content, %	16.0-22.0	16.0-22.0	16.0-22.0	15.0-18.0	15.0-18.0	15.0-18.0
游离M / Free M, %, ≤	5.0	5.0	5.0	15.0	15.0	15.0
筛余物 / Residue on 150 μm Sieve, %, ≤	0.10	0.10	\	0.10	0.10	\
筛余物 / Residue on 63 μm Sieve, %, ≤	0.50	0.50	\	0.50	0.50	\
添加剂 / Additive, %	\	1.0-2.0	\	\	1.0-2.0	\
粒径 / Granule Diameter, mm	\	\	2.50	\	\	2.50

**性状  
Properties**

淡黄色粉末(颗粒), 微有苦味, 无毒。比重为1.70。分解温度300°C。可溶于氯仿、丙酮, 部分溶于苯和乙醇、四氯化碳, 不溶于汽油、水和乙酸乙酯。贮存稳定。遇强酸或强碱溶液即分解。

Light yellow powder (granule) with a little bitter, no poison. The density is 1.70, the decomposable temperature is 300°C. Soluble in chloroform, acetone, partly soluble in benzene, ethanol, CCl<sub>4</sub>, insoluble in gasoline, water and ethyl acetate. Decomposition when meeting strong acid and strong alkali.

**用途  
Applications**

高速硫化促进剂, 不具有橡胶染色性。适用于NR、IR、BR、SBR、NBR、EPDM和乳胶。用于干橡胶时具有与WILLING MBT一样的性能且焦烧性低。用于乳胶体系具有温和的活性且通常与超促进剂并用。硫化临界温度较高(138°C)。不易产生早期硫化, 硫化平坦性较宽。适用于乳胶体系具有调节体系粘度的功能。适用于注塑与发泡橡胶产品。操作安全, 易分散, 不污染, 不变色。与TP合用时耐老化。主要用于制造轮胎、胶管、胶鞋、胶布等一般工业品。

Used for NR, IR, SBR, NBR, EPDM and latex. May be regarded as an intermediate between WILLING M and WILLING DM. Used as a secondary accelerator in combination with WILLING PZ and WILLING EZ. Similar performance as WILLING MBT at curing temperature in dry rubber application. Has lower scorch and better processing safety. Suitable for mold curing. Require zinc oxide and stearic acid as activators in many kinds of rubber batch. Easily disperses in rubber; yields non-staining and non-discoloring products. Mainly used in the manufacture of latex products, foam rubber, latex coating gloves, 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.