



**橡胶硫化剂**  
**RUBBER VULCANIZING AGENT**

**WILLING DTDM**

化学名称	4, 4' 二硫化二吗啉
Chemical Name	4,4'-dithiodimorpholine
分子式/Molecular Formula	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
结构式/Molecular Structure	
分子量/Molecular Weight	236.4
CAS 编号/CAS NO.	103-34-4

技术指标 / Specifications

项目 / Item	晶形料 / Crystal	加油晶形料 / Oiled Crystal	颗粒 / Granule
外观(目测) / Appearance	白色晶形料(颗粒) / White crystal (granule)		
初熔点 / Initial Melting Point, °C ≥	120.0	120.0	120.0
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 840 μ m Sieve, % ≤	0.00	0.00	\
添加剂 / Additive, %	\	0.0-1.0	\
粒径 / Granule Diameter, mm	\	\	2.50

**性状 Properties** 白色针状结晶(颗粒)。比重1.32-1.38。溶于苯、四氯化碳, 稍溶于丙酮、汽油, 难溶于乙醇、乙醚, 不溶于水。遇无机酸或无机碱分解。在常温下储存稳定。无毒, 有鱼腥气味。触及皮肤或粘膜能引起强而持久的辛辣感。

White acicular crystal (granule). The density is 1.32-1.38. Soluble in benzenze, CCl<sub>4</sub>, partly soluble in acetone, gasoline, insoluble in alcohol, diethyl ether, water. Decomposition meeting acid or alkali. Stabilization storage in room temperature. No poison but with high smell of fish. Sensitive to skin and peogaster.

**用途 Applications** 本品可用作天然橡胶和合成橡胶的硫化剂。使用本品时胶料不喷霜、不污染、不变色、易分散。用于有效和半有效硫化体系时所得硫化胶耐热性能和耐老化性能良好。在硫化温度下能释放活性硫, 有效硫含量为27%, 操作安全, 单独使用时硫化速度慢, 与噻唑类、秋兰姆类及二硫代氨基甲盐并用能提高硫化速度。本品尤其适用于丁基橡胶。主要用于制造轮胎、丁基内胎, 胶带和耐热橡胶制品, 也用于高速公路的沥青稳定剂。

Sulphur donor vulcanizing agent for efficient vulcanization and semi-efficient vulcanization cure system, provide heat/reversion/aging resistance in NR and synthetic rubbers, non-blooming. Excellent storage safety. Lower cure speed used alon. Lighter cure speed when used other sort of accelerators.

**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.