



## SOVEREIGN CHEMICAL COMPANY

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# Mixslab® TMTD 75

### **Manufacturer**

Shandong Yanggu Huatai Chemical Co., LTD.

### **Classification**

Thiuram accelerator and sulfur donor Dispersion

### **Dispersion**

75% tetramethylthiuram disulphide

25% EPDM/EVM with dispersing agents

### **Physical Data**

#### **Specifications on Active Material**

#### **Value**

Melting point, °C

142.0 minimum

Purity, %

95.0 minimum

Ash content, %

0.5 maximum

Heat loss, %

0.5 maximum

Sieve residue, % on 63µ

0.5 maximum

#### **Dispersion Specification Properties**

#### **Value**

Mooney viscosity

30 – 70

Sulfur, %

39.0-43.0

#### **Typical Properties**

#### **Value**

Physical Form

White slab

Density, g/cm<sup>3</sup> @ 20°C

approx. 1.2

### **Applications**

Mixslab® TMTD 75 causes very rapid but scorch-safe vulcanization of natural and synthetic rubbers. In combination with mercapto or sulphenamide accelerators the vulcanization undergoes retardation. In such cases they have little effect on the degree of crosslinking; they mainly reduce the scorch rate and increase total curing time. Mixslab® TMTD 75 receives an additional activation from basis accelerators, e.g. aldehyde-amine and guanidine.

Mixslab® TMTD 75 is used as a primary accelerator in combination with sulfur, as a secondary accelerator in conjunction with thiazoles, sulfenamides, carbamates and as a curing agent, sulfur donor, without free sulphur. Sulfurless cure or low sulfur vulcanization is providing heat resistant vulcanizates with good ageing properties.

### **Advantages of Dispersion Form**

#### **Reduced Manufacturing Costs**

- Better dispersion of chemicals
- Faster mixing equating to increased mixing equipment output
- Reduced labor cost
- 5% reduction in lost chemicals
- More efficient use of chemicals
- Suitable for automatic weighing and handling equipment

#### **Quality Improvements**

- Single source of raw materials
- Better dispersion leading to more consistent cure times and physical properties
- Reduction of off-spec batches

#### **Environmental**

- Reduced airborne dust
- Less skin contact to mixing operators
- Elimination of residual dust in packaging
- Reduced chemical usage

### **Packaging and Storage**

**Packaging:** 25 Kg (55.1 lb.) bag

**Shelf Life:** 2 year from date of manufacture if stored as indicated below.

**Storage:** Store in a closed container in a cool, dry environment away from chlorinated rubber.

Specification Date: July 14, 2015 (supercedes: August 19, 2014)