

# Mixgran<sup>®</sup> DTDM 80

Manufacturer: Shandong Yanggu Huatai Chemical Co., LTD.  
 Classification: Sulfur Donor Dispersion  
 Composition: 80% morpholine disulfide (4,4'-dithiodimorpholine), 20% elastomer binding and dispersing agents

Specification Properties	Value
Density, g/cm <sup>3</sup> @ 20°C	1.02-1.22
Mooney Viscosity ML (1+4) @ 50°C	30-70
Typical Properties	Value
Physical Form	White to beige gray granules

## > APPLICATIONS

**Uses:** Sulfur donor for natural and synthetic rubbers. DTDM can be used as a partial or complete replacement for sulfur in EV or semi EV cure systems.

**Polymers:** Natural rubber and most synthetic elastomers.

**Synergism:** When DTDM is used with sulfenamides the resultant vulcanizate has excellent heat aging properties.

**Cure Effect:** Provides excellent scorch safety.

**Crosslink Type:** DTDM promotes mono-sulfidic crosslinks resulting in vulcanizates with excellent heat and aging resistance.

## > 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.) bags.

**Shelf Life:** 2 years 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:** March 19, 2020