



SOVEREIGN CHEMICAL COMPANY

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Mixgran® ZnO 80 LM

Manufacturer	Shandong Yanggu Huatai Chemical Co., LTD.
Classification	Zinc Oxide Dispersion
Dispersion	80% zinc oxide, 20% EPDM/EVM and dispersing agents
Chemical Composition	
Molecular Formula	ZnO
Molecular Weight	81.4
CA Nomenclature	Zinc oxide
Physical Data	
Dispersion Specification Properties	Value
Mooney viscosity, ML(1+4)@175F	25.0 –40.0
Ash, %	78.0-82.0
Typical Properties	Value
Physical Form	White granules
Density, g/cm ³	2.70 – 2.80

Applications

Used as an activator in sulfur based cure systems and a vulcanizer for halobutyl rubbers. Mixgran® ZnO-80 LM is a special grade of zinc oxide particularly suitable for the rubber industry. Due to its elastomer-bound form, the absorption of humidity from the atmosphere during storage is prevented. In comparison to extrusion compounds containing powdered zinc oxide, those with Mixgran® ZnO-80 LM provide smoother profiles. This is due to the more homogeneous dispersion of Mixgran® ZnO-80 LM. A slight increase in modulus and tensile strength usually occurs. Elongation at break is also improved.

Advantages of Dispersion Form

Reduced Manufacturing Costs

- Better dispersion of chemicals
- Faster mixing equating to increased mixing equipment output
- 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 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: January 27, 2014 (Supersedes: Provisional)