

Mixgran[®] DTDC 80

Manufacturer: Shandong Yanggu Huatai Chemical Co, Ltd.
Classification: Rubber Vulcanizing Agent
Chemical Composition: 80% Caprolactam disulfide, 20% SBR Binder and dispersants

Specification Properties	Value
Density @ 20 °C, g/cm ³	1.05-1.30
Mooney Viscosity ML (1+4) @50 °C	40-90
Sulfur Content, %	16-19
Typical Properties	Value
Physical Form	Beige Granules

> APPLICATIONS

Uses: Mixgran DTDC-80 is a sulfur donor which, unlike many thiurams and morpholine contains no carcinogenic nitrosamines. Under common curing conditions, Mixgran DTDC-80 liberates free sulfur, which, unlike normal sulfur, forms mono- and di-sulfidic bridges. This provides excellent heat aging resistance of vulcanizates made with Mixgran DTDC-80. The use of Mixgran DTDC-80 results in increased safety of scorch properties. When the curing temperature is reached, a quick vulcanization follows. This rapid vulcanization is of particular advantage when voluminous molded articles are produced.

Compounds with Mixgran DTDC-80 provide a wide curing plateau. Therefore, Mixgran DTDC-80 is especially suitable in all cases where high temperatures occur during processing, e.g. salt bath vulcanization and injection molding. Reversion effects are avoided. We recommend the use of Mixgran DTDC-80 wherever a high degree of heat resistance is required.

Vulcanizates show favorable compression set properties as well as low permanent elongation values. In many cases, the amounts of conventional antioxidants can be reduced. Blooming, generally observed when using thiuram disulfides as crosslinking agents, is absent with Mixgran DTDC-80.

Recommended Dosage: NR, SBR, NBR: 1-2 phr. IIR and low sulfur vulcanization: 1.2-2.5 phr

> PACKAGING AND STORAGE

Packaging: 25 kg (55.1 lb.) boxes.

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

Storage: Store in unopened original packages in a cool dry place.

Specification Date: February 22, 2019