

Technical Data Sheet

Diamond Sulf OT 25 AS (DS OT 25 AS)

Product Description

DS OT 25 AS is a mixture of *Homo-Polymer of Sulfur, Silica* and *Coating Oil*. It is a non-blooming vulcanizing agent for unsaturated elastomers. Being a grade of Insoluble Sulfur, it is insoluble in carbon disulfide.

Technical Specification

Description	Product Specification (%)	Ref. Test Method
Total Sulphur	67 ± 1.5	ASTM D 4573
Insoluble Sulphur (on Total Sulphur)	95 min	ASTM D 4578
Oil content	25 ± 1.5	ASTM D 4573
Acidity (as H ₂ SO ₄)	0.05 max.	ASTM D 4569
Ash content *	8 ± 1	ASTM D 4574
Heat Loss	0.5 max.	ASTM D 4571
Fineness Retention (on wet screen) @ 120 mesh @ 230 mesh	0.20 2.00	ASTM D 4572
Thermal Stability @ 105°C for 15 min. in Liquid Paraffin	80 min	ISO 8332 (Method A)

*Ash is basically silica

Physical Appearance: Fine yellow powder.

Recommended Dosage factor of this grade: 1.49 x (desired phr of sulfur)

Application and Advantages

DS OT 25 AS improves dispersion of IS in rubber matrix in the presence of Silica as carrier and simultaneously improves flowability of material as well. It maintains desired fineness level by inhibiting caking effect of oil within the product on storage and also strengthens bonding in between rubber & pre-coated steel cord, used for making steel-belt radial tyre.



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In the compound, dose of Silica may be reduced in master batching stage where Silica is being used in the formulation, as Silica present in this particular grade is much higher (8 ± 1.0) what may be considered as an additional benefit in cost effectiveness.

Shelf – Life : 1 year from the manufacturing date (subject to the storage in dry ambience and at room temperature)

Storage Condition

Store in cool, dry place with proper ventilation, away from acid, bases, oxidizing agents, amines, direct sunlight and source of heat or ignition

Environmental Precautions

Prevent leakage or spillage. Do not let the product to enter into drains. Discharge into the environment must be avoided. Keep material in proper packing and ventilated storage.

Safety Precautions

Use tight-fitting goggles, face shield or safety glasses with side shields if there is any chance of eye contact. Avoid skin contact. Use chemically resistant gloves (Nitrile rubber or Neoprene gloves preferred), boots, and apron if risk of contact persists.

Please refer to the appropriate Safety Data Sheet (SDS) for details.

Packaging

For International market, 25 Kg Paper Bag, 700 Kg Big Bag, 1000 Kg Big Bag & 1200 Kg Big Bag

For domestic market, 25 Kg HDPE/PP Bag

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