



Technical Data Sheet

Diamond Sulf OT 20 HD (DS OT 20 HD)

Product Description

DS OT 20 HD is a mixture of *Homo-Polymer of Sulfur, Coating Oil & suitable polymeric binder*. 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 Sulfur	78.5 – 81.5	ASTM D 4573
Insoluble Sulfur (On Total Sulfur)	90 min	ASTM D 4578
Total Binder content	18.5 – 21.5	ASTM D 4573
Acidity (as H ₂ SO ₄)	0.05 max.	ASTM D 4569
Ash content	0.05 max.	ASTM D 4574
Heat Loss	0.50 max.	ASTM D 4571
Thermal Stability @ 105°C for 15 min. (On Total Sulfur)	80 min	ISO 8332 (Method A)

Physical Appearance: Fine yellow powder.

Specific Gravity @ 23°C: 1.58 appx

Recommended Dosage factor of this grade: 1.25 x (desired phr of sulfur)

Application and Advantages

- **DS-OT-20 HD** is a special grade of DIAMOND SULF exhibiting higher levels of dispersion. During the mixing process this grade disperses more easily leading to reduction in incorporation time under identical conditions. This grade contains the requisite quantity of suitable polymeric binder which facilitates better dispersion resulting in homogeneous vulcanisation and physical properties.
- **DS-OT-20 HD** is recommended for rubber compounds where relatively large sulfur loading above the solubility of sulfur in the elastomer is required.



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- It facilitates enhanced bloom protection, hence results in preservation of surface tack, which is an important requirement of tyres. It ensures more consistent vulcanizing properties and allows storage at relatively higher ambient temperature.

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 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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