



Technical Data Sheet

Insoluble Sulfur OT33 (Polymeric sulfur)

04/06/2011

CAS No.:

Polymeric sulfur: 9035-99-8

Description:

Insoluble Sulfur is insoluble in carbon disulfide, scientific name called Polymeric Sulfur, IS for short. It covering oiled filled and non-oiled filled products as it containing different amount of oil-filled ingredients. As the development of radial tire industry, our company developed insoluble sulfur products with high thermal stability and high dispersibility. Insoluble Sulfur is a new kind of rubber vulcanization agent, It is not only overcome some shortcomings of ordinary sulfur, but also help to further improve the quality of rubber products.

Product Features:

Insoluble sulfur OT33 is a non-blooming rubber vulcanizing agent.

Technical Specification:

Item	Technical Specifications
Appearance	Non-blooming powder
Color	yellow
Total Sulfur Content	% 66.0~68.0
Insoluble Sulfur (On Total Sulfur)	min 90
Thermal stability(105°Cx15 min)	% min 75
Thermal stability(120°Cx15 min)	% min 40
Oil content	% 32.0~34.0
Acidity (H ₂ SO ₄)	max 0.05
Heating Loss (60°Cx4h)	max 0.50
Ash Content	% 0.15
Fineness (100 Mesh)	% min 99.5

Application:

Natural rubber, various synthetic rubber, tires, rubber belt, rubber tube, seals and especially for radial tires.

Advantages:

Insoluble sulfur products are widely used in natural rubber and various synthetic rubbers. It is can be used for manufacturing tires, rubber belt, rubber tube, seals and other rubber products. Especially for the manufacture of radial tire.

- The compound will be non-blooming during the storage period, can maintain uniform performance of rubber components, overcome the compound disadvantage of poor adhesion because of blooming, and prevent the pollution of rubber products and molds.
- There is no transfer phenomena in adjacent fillet, maintain the surface viscosity of



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compound.

- Reduce scorching in the process of mixing and storage.
- Shorten curing time and reduce sulfur usage to improve the ageing performance of rubber products.
- Increase the adhesion between rubber and other materials.
- In addition it is also has high thermal stability, high dispersity and the most resistant to convert or restore to common sulfur in the rubber processing temperature, so it can improve the safety and dispersity when compound refining in a high temperature.

Package: Net weight: 25Kg/bag, packed in paper bag lined with plastic bag.

Storage: It should be stored in a dry, clean and cool warehouse; storage temperature should be no more than 40°C. Precautions against fire, moisture, heat and compression agglomerate. It cannot be mixed with alkaline and amine substance

Precaution: Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.
FOR INDUSTRIAL USE ONLY.

Disclaimer: All information on this data sheet is based on laboratory testing and is not Intended for design purposes.