

Colloidal Sulfur 50 %

Specialty and Standard Chemicals

Function

Colloidal Sulfur 50 % is a very fine milled sulfur dispersion in water particularly suitable for latex compounds. It is highly efficient and gives very satisfactory vulcanizations.

Product description

Composition: sulfur dispersion in water
Appearance: yellowish, viscous dispersion
Density (at 20 °C): approximately 1.37 g/cm³
Particle Size Distribution, d₅₀ approximately 5 µm

<u>Property</u>	<u>Nominal value</u>	<u>Unit</u>	<u>Test method</u>
Sulfur content	52.0 ± 2.0	%	CIPAC 18/TC/M/-
pH value	10.0 ± 1.0	---	DIN 19 268

Use

Mode of action: Colloidal Sulfur 50 % is a very fine wet-milled Sulfur with a dispersing agent and is particularly suitable for the production of thin and transparent latex films.

Processing: Prior to use, Colloidal Sulfur 50 % needs to be homogenized in the original container. Afterward, it is dispersed in an aqueous solution of a dispersant with the other vulcanization chemicals e.g. accelerators (Vulkacit®), zinc oxide and antioxidants (Vulkanox®) and possibly pigments. For preparation of the dispersion, a ball mill, bead mill or other suitable apparatus is recommended. The grinding time varies from case to case according to the required fineness of the dispersion, the formulation and the grinding machine to be used.

Dosage: The level of addition lies between 0.5 up to 3.5 phr (based on dry product) depending on the vulcanizing effect and transparency required.

Application: Colloidal Sulfur 50 % is used mainly for the vulcanization of synthetic and natural lattices in the production of dipped goods, rubber threads, molded foam and foamed carpet backing.

Packaging

60 l (82.8 kg) HDPE hobbock on 496.8 kg skid.

Storage stability

In original closed containers under cool (approximately 25 °C) conditions 365 days from date of production.

Handling

For additional handling information on Colloidal Sulfur 50 % please consult current safety data sheet.

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

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