

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Sodium Sulfite
- English Name: Sodium Sulfite
- CAS Number: 7681-57-4
- Formula: Na_2SO_3
- Molecular Weight: 126.04 g/mol
- Product Characteristics: High-purity white crystalline powder, strong reducing agent. Soluble in water, stable under dry conditions. Used as preservative, antioxidant, and industrial reducing agent.

2. Technical Specifications

Item	Specification
Appearance	White crystalline powder/granules
Purity (Na_2SO_3)	$\geq 97.0\%$
SO_3^{2-} Content	58.0-60.0%
Na_2SO_4 Content	$\leq 2.0\%$
Moisture Content	$\leq 1.0\%$
pH Value (5% solution, 25°C)	8.0-10.0%
Heavy Metals (Pb)	$\leq 0.001\%$
Iron (Fe)	$\leq 0.005\%$
Insoluble Matter in Water	$\leq 0.1\%$
Solubility (20°C)	≥ 25 g/100 mL (water)

3. Product Advantages

- High purity and strong reducing activity.
- Excellent antioxidant and preservative properties.
- Soluble in water for easy formulation.
- Cost-effective for large-scale industrial use.
- Food-grade option available (meets FDA standards).

4. Application Fields

- Food Industry: Preservative and antioxidant for fruits, vegetables, wines, and processed foods.
- Water Treatment: Oxygen scavenger to prevent corrosion in boilers and pipelines.
- Pulp & Paper: Bleaching agent for pulp; removes residual chlorine.
- Chemical Synthesis: Reducing agent in organic and inorganic synthesis.
- Photography: Developer in photographic processing.

5. Usage Methods

- Food: Add 0.01-0.1% (mass ratio) to food products; comply with food additive limits.
- Water Treatment: Dosage 10-50 ppm; add to water systems.



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- Pulp Bleaching: Add 1-5% (mass ratio) to pulp slurry.
- Optimal Conditions: Apply at 15-40°C; avoid strong oxidizing agents and acids.

6. Packaging & Storage

- Packaging: 10 kg/bag (plastic-lined kraft bag), 25 kg/drum (HDPE), 1000 kg/IBC totes.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed; away from oxidizing agents.
- Shelf Life: 24 months (unopened).
- Transportation: Handle as UN1500; avoid collision, moisture.

7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid skin/eye contact and dust inhalation; rinse immediately if contact occurs.
- Food-grade product: Comply with food additive dosage limits.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Food-grade products meet FDA and national food safety standards.
- Each batch accompanied by COA.



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