



Technical Data Sheet (TDS)

Sodium Bisulphate (NaHSO₄)

1. Product Identification

- **Product Name:** Sodium Bisulphate
- **Chemical Name:** Sodium Hydrogen Sulfate
- **Chemical Formula:** NaHSO₄
- **CAS Number:** 7681-38-1
- **Molecular Weight:** 120.06 g/mol

Supplier:
ATDM

2. Product Description

Sodium Bisulphate is a dry, acidic salt commonly used as a safe and convenient alternative to liquid acids. It is widely utilized for pH adjustment, cleaning formulations, and industrial processing applications. The product is supplied as a free-flowing crystalline powder with consistent purity.

3. Typical Chemical Specifications

Parameter	Specification
Purity (NaHSO ₄)	≥ 99.0%
Sodium Sulfate (Na ₂ SO ₄)	≤ 0.7%
Moisture Content	≤ 0.5%
Iron (Fe)	≤ 0.01%
Insoluble Matter	≤ 0.1%

Note: Values represent typical specifications and may vary slightly between batches.



4. Physical Properties

- Appearance: White crystalline solid
- Odor: Odorless
- Bulk Density: 1.2 – 1.5 g/cm³
- pH (1% solution): 1.0 – 2.0
- Melting Point: ~315°C
- Solubility: Fully soluble in water
- Hygroscopicity: Slightly hygroscopic

5. Applications

Sodium Bisulphate supplied by ATDM is suitable for a wide range of applications, including:

- **Water Treatment:** pH reduction in pools and industrial systems
- **Cleaning Products:** Descaling agent and acidic cleaner
- **Food Processing (where permitted):** Acidulant
- **Textile Industry:** Dyeing and finishing processes
- **Metal Processing:** Surface treatment and pickling
- **Agriculture:** Soil pH adjustment

6. Handling Recommendations

- Use appropriate personal protective equipment (PPE)
- Avoid generating dust during handling
- Ensure adequate ventilation in work areas
- Prevent contact with moisture prior to use

7. Storage Conditions

- Store in a cool, dry, and well-ventilated area
- Keep containers tightly sealed
- Protect from humidity and water exposure
- Keep away from strong bases and oxidizing agents



8. Packaging Options

ATDM offers Sodium Bisulphate in various packaging formats:

- 25 kg bags
- 50 kg bags
- Bulk jumbo bags (FIBC)
- Customized packaging available upon request

9. Shelf Life

- Recommended shelf life: **24 months** under proper storage conditions

10. Quality Assurance

Sodium Bisulphate supplied by ATDM is manufactured and tested in accordance with strict quality control procedures to ensure consistency, purity, and performance across all batches.

11. Safety Information

For detailed safety, handling, and emergency measures, refer to the corresponding **Material Safety Data Sheet (MSDS)** provided by ATDM.

12. Disclaimer

The information presented in this Technical Data Sheet is based on current knowledge and experience. It is intended as a guideline for safe handling and application. Users are responsible for determining suitability for their specific use and compliance with applicable regulations.