

Technical Data Sheet (TDS)

Product Name: Sodium Petroleum Sulfonate

Supplier: ATDM

Website: www.atdmco.com

Revision Date: October 2025

1. Product Description

Sodium Petroleum Sulfonate is an oil-soluble anionic surfactant widely used as a detergent, dispersant, and corrosion inhibitor in lubricants, greases, and metalworking fluids. It acts as an emulsifier that stabilizes oil-water systems, removes contaminants, and protects metal surfaces from oxidation and rust. ATDM provides high-quality Sodium Petroleum Sulfonate with consistent performance for industrial applications.

2. Applications

- Lubricating oil detergent and dispersant
- Metalworking fluid emulsifier and corrosion inhibitor
- Rust preventive oils
- Grease additive for adhesion and water resistance
- Industrial cleaner and oil-field chemical emulsifier

3. Typical Properties

Property	Typical Value
Appearance	Brown viscous liquid
Active Matter (%)	40–60
Moisture (%)	≤ 1
pH (1% solution)	7 – 9
Density @ 25°C (g/cm ³)	0.95 – 1.05
Flash Point (°C)	>150
Solubility	Soluble in oil, insoluble in water
Shelf Life	24 months (in sealed container)

4. Performance Features

- Excellent detergency and dispersion in lubricants
- Strong rust and corrosion protection
- Effective emulsifying action for metalworking fluids
- Thermal and oxidative stability

- Compatible with mineral and synthetic base oils
- Improves lubrication and reduces wear

5. Packaging and Storage

Packaging:

- 200 kg steel drums
- 1000 kg IBC tanks
- Bulk delivery in ISO tanks on request

Storage:

Keep containers tightly closed in a cool, dry, and well-ventilated area. Avoid direct sunlight and contact with water. Under proper conditions, the product remains stable for up to two years.

6. Handling and Safety

Avoid contact with eyes and skin. Wear protective gloves and goggles when handling. Wash hands thoroughly after use. Refer to the ATDM Material Safety Data Sheet (MSDS) for complete safety information.

7. Disclaimer

The information provided in this Technical Data Sheet is based on data believed to be accurate and reliable. However, ATDM assumes no responsibility for any injury, loss, or damage resulting from improper use of the product. Users are responsible for ensuring the product's suitability for their specific applications.