

Sulphur Specification Sheet

Product Name: Sulphur (Sulfur)

Chemical Formula: S

CAS Number: 7704-34-9

HS Code: 2503.00

Supplier: ATDM co

1. General Characteristics

Property	Specification
Appearance	Yellow solid (granule/lump/powder)
Odor	Odorless or faint sulfur smell
Form	Granules / Powder / Lumps
Color	Bright Yellow
Purity (as S)	≥ 99.5%
Moisture	≤ 0.2%
Ash Content	≤ 0.05%
Acidity (as H ₂ SO ₄)	≤ 0.01%
Organic Matter	≤ 0.01%
Iron (Fe)	≤ 0.003%
Arsenic (As)	≤ 1 ppm
Chlorides (Cl ⁻)	≤ 20 ppm
Melting Point	~115 °C
Boiling Point	~445 °C
Solubility in Water	Insoluble
Flammability	Flammable
Flash Point	~207 °C

Property	Specification
Bulk Density	1.2 – 1.8 g/cm ³ (form dependent)

2. Applications

- Fertilizer industry (NPK and elemental sulfur fertilizers)
 - Rubber vulcanization
 - Sulfuric acid production
 - Detergents and surfactants
 - Explosives and matches
 - Petroleum refining (hydrodesulfurization)
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3. Packaging

- 25 kg PP bags
 - 50 kg bags
 - 1 MT jumbo bags
 - Bulk shipments available upon request
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4. Storage & Handling

- Store in a cool, dry, and well-ventilated area
 - Keep away from heat, sparks, or open flames
 - Use explosion-proof equipment and grounding during handling
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5. Safety Information

- **Hazard Class:** 4.1 – Flammable Solid
- **UN Number:** 1350
- Handle with appropriate PPE (gloves, goggles, dust mask)
- Avoid generating dust clouds