PETROLEUM & ENERGY DIVISION · TECHNICAL DATA SHEET

Elemental Sulfur (S) — Complete Grade Specifications

Granular Sulfur (2–6 mm) · Lump Sulfur (0–200 mm) · Milled Sulfur Powder (-40 to -325 Mesh)

BEG-TDS-SULFUR

HS Code: 2503.00 · **CAS:** 7704-34-9
Inspection: SGS / Intertek Port COA
beroilenergy.com/sulphur-supplier

ELEMENTAL PURITY	MIN. CONTRACT QTY	INCOTERMS	QUALITY ASSURANCE
99.5% – 99.95% Min	100 – 500 MT	FOB · CPT · CFR ASWP	SGS / Intertek

Product Overview & Recovery Standard

Bright Yellow SRU Grade

Beroil Energy Group supplies bright yellow elemental sulfur recovered from sour natural gas sweetening and refinery Sulphur Recovery Units (SRU), verified to 99.50%–99.95% dry-basis purity. Water-insoluble at ambient conditions, sulfur melts cleanly at 115–120 °C and feeds sulfuric acid manufacturing, phosphate fertilizers (~50% of global demand), rubber vulcanization, and chemical synthesis.

- Granular & Pastilles (2–6 mm)
- Technical Gas Lump (0–200 mm)
- Milled Powder (-40 to -325 Mesh)
- Acidity (H2SO4) ≤ 0.01%



01 · Granular Sulfur & Pastilles (Primary Bulk Export Grade)

PACKAGING	MIN. ORDER	DELIVERY TERMS	PAYMENT
Bulk Vessel · 1 MT Jumbo Bags	500 MT	FOB, CPT, CFR ASWP	T/T · 100% L/C at Sight

PROPERTY	UNIT	TEST METHOD	SPECIFICATION
Sulfur Purity (Dry Basis)	% wt	ASTM / ISO	99.50 – 99.95 Min
Moisture Content	% wt	Oven Dry	0.50 Max
Ash Content	% wt	Ignition @ 800 °C	0.05 Max
Organic Matter / Carbon	% wt	Lab Assay	0.05 Max
Acidity (as H2SO4)	% wt	Titration	0.01 Max
Particle Size (2 – 6 mm)	%	Sieve Analysis	90.0 Min
Fines (< 0.5 mm)	%	Sieve Analysis	1.0 Max
Color & Appearance	—	Visual	Bright Yellow Granules

02 · Lump Sulfur (Technical Gas Industrial Grade)

PACKAGING	MIN. ORDER	DELIVERY TERMS	PAYMENT
Bulk Vessel · 1–1.5 MT Jumbo Bags	200 MT	FOB, CPT, CFR ASWP	T/T · L/C at Sight

PROPERTY	UNIT	TEST METHOD	SPECIFICATION
Sulfur Purity (Dry Basis)	% wt	ASTM / ISO	99.50 Min
Moisture Content	% wt	Oven Dry	0.50 Max
Ash Content	% wt	Ignition @ 800 °C	0.05 Max
Organic Matter / Carbon	% wt	Lab Assay	0.10 Max
Acidity (as H2SO4)	% wt	Titration	0.01 Max
Lump Size Range	mm	Screening	0 – 200 mm
Color & Appearance	—	Visual	Bright Yellow Lumps

03 · Sulfur Powder (Milled & Micronized Mesh Grades)

PACKAGING	MIN. ORDER	DELIVERY TERMS	PAYMENT
25 kg / 50 kg PE-Lined Bags	100 MT	FOB, CPT, CFR ASWP	T/T · L/C at Sight

PROPERTY	UNIT	TEST METHOD	SPECIFICATION
Sulfur Purity (Dry Basis)	% wt	ASTM / ISO	99.50 Min
Moisture Content	% wt	Oven Dry	0.50 Max
Ash Content	% wt	Ignition @ 800 °C	0.05 Max
Acidity (as H2SO4)	% wt	Titration	0.01 Max
Mesh Fineness Options	Mesh	Sieve Analysis	-40 to -325 Mesh / Submicron
Ignition Temperature	°C	Thermal Test	~190 °C
Color & Appearance	—	Visual	Bright Yellow Free-Flowing Powder

Handling & Dust Safety Note: Milled sulfur powder (~190 °C ignition temp.) requires dry, well-ventilated storage and grounded, spark-free equipment (IMO/UN 1350 · Class 4.1).

04 · Physical & Chemical Reference

Element S

Chemical Symbol & CAS	S · CAS 7704-34-9
Molar Mass	32.06 g/mol
Melting Point	115 – 120 °C (239 °F)
Solid Density	2.07 – 2.10 g/cm³
Water Solubility	Insoluble
Liquid Appearance	Clear Amber (> 120 °C)

05 · Forming & Application Guide

FORM	PROCESS	PRIMARY END-USE
Granular (2–6 mm)	Rotary Drum	Bulk vessels · Acid & NPK plants
Pastilles (2–5 mm)	Steel Belt	Minimal fines · Pneumatic feed
Lump (0–200 mm)	Solidified Vat	Acid burners & bulk chemistry
Powder (-40/-325)	Milled Mesh	Rubber curing & crop fungicides

06 · Export Packaging & Port Transshipment Matrix

PACKING FORMAT	UNIT CAPACITY	MIN. ORDER	LOGISTICS RECOMMENDATION
Bulk Ocean Vessel	Loose Bulk Hold	500 MT+	Lowest freight cost per MT for plants with port discharge grabs
FIBC Jumbo Bags	1.0 – 1.5 MT Big Bags	200 – 500 MT	Moisture-lined heavy woven slings for containers & break-bulk
Multi-Wall / PP Bags	25 kg / 50 kg Bags	100 MT	Palletized & shrink-wrapped for powder and distributor cargo

07 · Structured B2B Procurement & SGS Quality Assurance

01 · PACKAGING
Containerized or Bulk Execution
Bulk vessels for high-tonnage port discharge, 1–1.5 MT FIBC jumbo bags, or 25/50 kg bags with moisture control.

02 · DELIVERY
FOB, CPT & CFR ASWP
Scheduled ocean freight and multi-modal rail/road transshipment backed by port warehousing.

03 · PAYMENT
Bankable Settlement Terms
100% Irrevocable L/C at Sight or structured T/T with Commercial Invoice, B/L, and Certificate of Origin.

04 · INSPECTION
Independent SGS / Intertek COA
Loading-port sampling and weight supervision verifying purity, moisture, ash, acidity, carbon, and granulometry.

Need Firm Sulfur Pricing or a Lot-Specific COA?

Specify your required grade (Granular, Lump, or Powder), tonnage, packaging, and destination port. Our Petroleum & Energy Trade Desk responds with loading schedules and FOB / CFR quotations.

Request Quote / Lot COA →

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