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SULVORA

ELEMENTAL SULPHUR

COMPLETE CONTROL FROM SOURCE TO DELIVERY IN SULPHUR SUPPLY.

Granular • Lump • Powder

PRODUCT • QUALITY • LOGISTICS • DOCUMENTATION

Global elemental sulphur product and supply catalogue

2026

OPERATIONAL CORE

35,000 MT/MONTH

integrated operational programme

The catalogue integrates source, physical form, lot identity, sampling, analysis, loading and documentation within one delivery chain.

POTI-CENTRED PROGRAMME

30,000 MT/MONTH

MERSIN BONDED-WAREHOUSE PROGRAMME

5,000 MT/MONTH

420,000 MT/YEAR

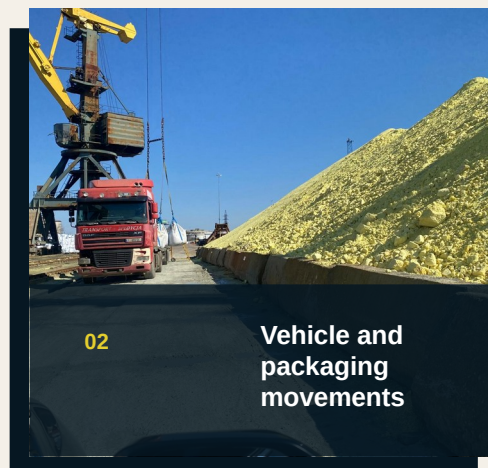
Annualised nominal equivalent of the monthly operational programme

Declared capacity is supported by actual product and port movements.



01

Open stock, port cranes and rail access within the same Poti operational area.



02

Vehicle and packaging movements



03

Product form and stock surface

30,000 MT/MONTH

For Turkmenistan- and Uzbekistan-origin products, field acceptance, physical lot segregation, weighing, sampling, loading and export documentation are planned through Poti.

PRODUCT FORMS

Granular • lump • powder

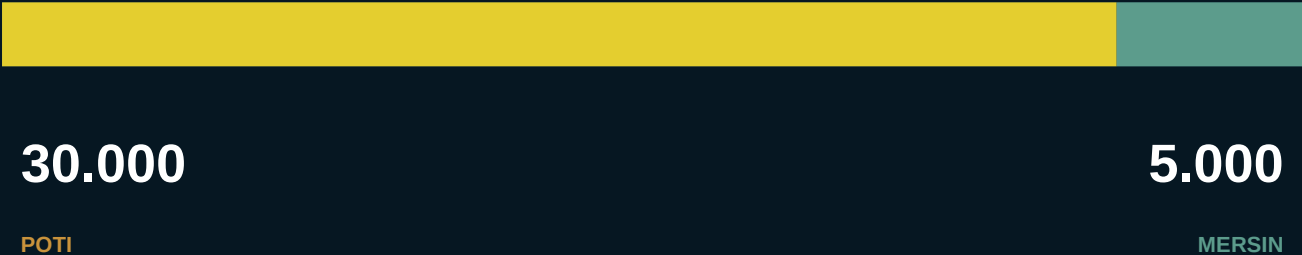
EXPORT CORRIDOR

Global delivery via the Black Sea

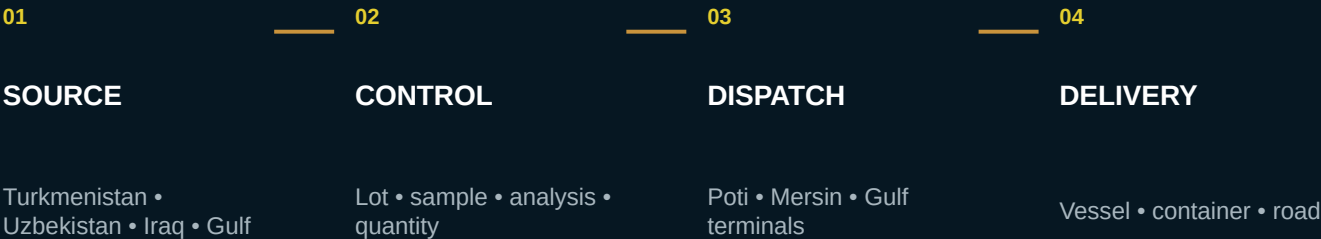
85.7% of the monthly programme is managed through Poti and 14.3% through Mersin.

85,7%

Primary Poti-centred corridor



This allocation represents operational capability balanced across two ports, multiple origins and distinct customs models.



Multiple producers converge under one technical and contractual acceptance framework.

SOURCE

TURKMENISTAN	Turkmengaz / Galkynysh and CNPC / Bagtyyarlyk
UZBEKISTAN	Uzbekneftegaz / Mubarek
KAZAKHSTAN	Tengizchevroil / Tengiz
IRAQ	SOMO sales channel; facility identified by lot
GULF	Aramco / ATC and transaction-specific sources



ONE ACCEPTANCE LANGUAGE

Producer • facility • origin • form • standard • lot Certificate of Analysis • inspection • transport document

Every offer is matched to the buyer's process and unloading requirements.

The 30,000 MT/month programme is tracked from port arrival through export loading.



POTI / 01

Open stock area, crane access and vehicle movement; actual Poti operation.

Poti is the integrated operations and quality-control hub.

For Turkmenistan- and Uzbekistan-origin products, field acceptance, lot segregation, stock tracking, independent sampling, quantity reconciliation and vessel/container loading preparation are managed under one operating plan.

MONTHLY PROGRAMME

30,000 MT

ORIGIN FOCUS

**Turkmenistan +
Uzbekistan**

DELIVERY FLEXIBILITY

**Bulk • big bag •
container**

High volume is converted into shipment without compromising physical segregation or document matching.

FIELD ACCEPTANCE

Each truck or rail wagon is accepted against its product and origin record.

PHYSICAL SEGREGATION

Stock boundaries are established by producer, product form and lot.

QUANTITY CONTROL

Weighing records are reconciled with stock movements.

QUALITY GATE

Representative sampling, analysis and visual conformity are completed.

LOADING FILE

Quantity, lot, seal and transport documents are closed within one file.



FIELD / 02

Stock and vehicle movements are matched to field records for every lot.

OUTCOME

The lot received by the buyer retains the same identity assigned at site entry.

A 5,000 MT/month import-export flow is managed together with its customs status.

5,000 MT/MONTH

Bonded-warehouse entry and exit, lot segregation, packaging when required and onward-shipment preparation for Iraq- and Turkmenistan-origin products.



The Mersin programme forms the second operational backbone for Eastern Mediterranean and regional road deliveries.

01

ENTRY

Customs status and weighing

02

SEGREGATION

Origin • producer • form
• lot

03

PREPARATION

Bulk • big bag • bagged

04

DISPATCH

Inspection • declaration
• transport

The bonded-warehouse record, product movement and export file follow the same lot.

BONDED-WAREHOUSE ENTRY

Declaration, transport and weighing records are checked.

STOCK IDENTITY

Origin, producer, form and lot records are opened.

PACKAGING

Bag construction, liner, stitching, label and net weight are defined.

INSPECTION

Quality, quantity, packaging and seal details are recorded.

EXPORT DISPATCH

The customs declaration, transport document and delivery file are matched.



PACKAGING / 01

Packaging type and net weight are finalised in the contract to match the buyer's unloading system.

Producer, terminal, technical values and documentation are managed in one allocation file.

TRANSACTION-BASED SOURCE VERIFICATION

PRODUCER	Legal entity and facility
PRODUCT	Form and physical condition
TECHNICAL	Specification and lot analysis certificate
TERMINAL	Loading point and acceptance
TRANSPORT	Vessel, schedule and documentation

The Gulf network integrates producer and trading channels, including Aramco/ATC, with product form, terminal allocation, lot COA and shipment programme under one operating model.

ACCEPTANCE RULE

Contract + lot analysis certificate + agreed inspection

Each entity is presented according to its defined role.

01 TUAY GROUP

Group management, corporate framework and international trading capability.

02 NEXORVA GLOBAL COMMERCE

Source development, contracting, financial and operational coordination.

03 SULVORA

Elemental sulphur product, quality and supply platform.

CONTRACTUAL CLARITY

The legal entity, seller, payment beneficiary, loading party and document issuer are clearly identified in the transaction documents.

One element, three distinct logistics and process behaviours.



PRODUCT
/ 01

Granular, lump and powder forms directly affect unloading, storage, dust control and process feeding.

GRANULAR

Consistent flow for high-volume bulk shipments.

LUMP

Economical physical form for melting and reprocessing.

POWDER

Controlled dosing and high reactive surface area.

Each product form is defined by its own technical acceptance profile.

The offer defines physical form, granule or lump size, fines, moisture, caking, packaging and unloading system together.

Granular sulphur is selected for flow and loading efficiency.



01

Granules and fines are both visible on the actual stock surface; acceptance is not based solely on average granule appearance.

TARGET SIZE RANGE

Typical 2-6 mm; subject to contract

DELIVERY FORM

Bulk • container • big bag

CRITICAL CONTROL

Moisture • fines • breakage • dust

ACCEPTANCE

Sampling + Certificate of Analysis + loading supervision

TECHNICAL NOTE

Prill and granular designations may not represent the same shape and strength in every market.

Lump sulphur is defined according to the melting plant's accepted size range.



02

Lump distribution may range from large blocks to fines; size limits must be stated in writing.

SIZE

Dependent on source and crushing method

DELIVERY FORM

Bulk • big bag

CRITICAL CONTROL

Size • moisture • ash • foreign matter

ACCEPTANCE

Size distribution + Certificate of Analysis + visual inspection

TECHNICAL NOTE

The term 'lump sulphur' alone does not constitute an adequate commercial size specification.

Powder sulphur requires particle and dust safety controls in addition to purity.



03

Bag or big-bag construction is selected for sealing, static and moisture control.

PARTICLE SIZE

According to sieve or particle-size distribution specification

DELIVERY FORM

Sealed bag • big bag • container

CRITICAL CONTROL

Dust • moisture • caking • static

ACCEPTANCE

Sieve analysis + safe-handling plan

TECHNICAL NOTE

Grounding, enclosed transfer and extraction are as critical as product purity.

Measurable limits, lot-based verification and contractual quality assurance.

Total sulphur (S)

≥ 99.95% by mass

Moisture

≤ 0.20% by mass

Ash

≤ 0.03% by mass

Acidity as H₂SO₄

≤ 0.003% by mass

Organic matter / carbon

≤ 0.03% by mass

Appearance

Bright yellow; free from visible foreign matter

Physical form / size

As specified by contract and lot

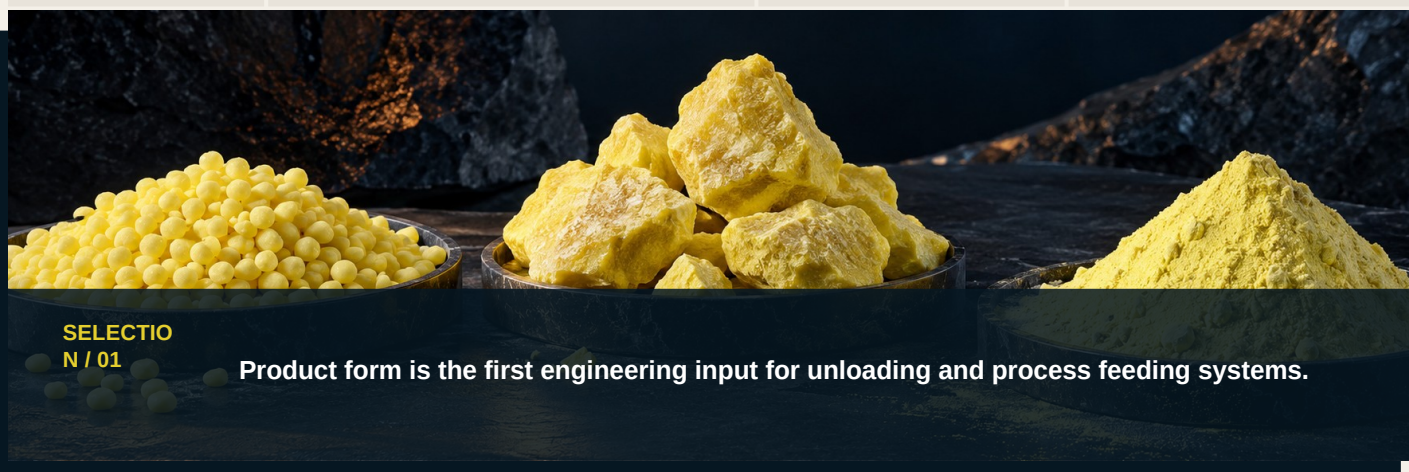
BINDING ACCEPTANCE

Signed contract + lot-specific Certificate of Analysis + agreed inspection method

Every offer is finalised with the lot COA for the selected origin and product form.

The right product is selected by assessing form, delivery mode and the buyer's process conditions together.

FORM	OPERATIONAL BEHAVIOUR	DELIVERY	ACCEPTANCE FOCUS
Granular	Consistent flow; breakage and fines are monitored.	Bulk / big bag / container	Size distribution • moisture • dust
Lump	Size and breakage profile vary by source.	Bulk / big bag	Lump size • ash • foreign matter
Powder	High surface area; static and caking risk.	Bag / big bag / container	Particle-size distribution • moisture • sealing



The offer is finalised after confirming the buyer's intended use and unloading equipment.

Quality is protected through five independent control gates from source to loading.



01

SOURCE

Producer • origin • historical data

02

LOT

Physical segregation • stock identity

03

SAMPLE

Plan • seal • witness sample

04

ANALYSIS

Competent laboratory • Certificate of Analysis

05

LOADING

Quantity • appearance • packaging

06

DOCUMENTATION

Origin • analysis • weight

07

DELIVERY

Seal • transport • close-out

08

RECORD

Traceable evidence in the event of a dispute

Result: the contract, lot, sample, analysis, quantity and transport document all describe the same cargo.

The reliability of an analysis begins with how and where the sample is taken.

SAMPLING PLAN

Lot boundary, number of points, timing and method are documented.

PRIMARY INCREMENT

Taken from multiple points throughout the cargo.

COMPOSITE SAMPLE

Primary increments are combined under controlled conditions.

DIVISION AND SEALING

Working, witness and umpire samples are separated.

ANALYSIS AND CERTIFICATION

Method, limit, result and lot identity appear in the same document.



LAB / 02

Working, witness and umpire samples are matched by seal, date and lot number.

RULE / A correct result cannot be accepted if it represents the wrong sample.

Quantity, appearance, packaging, loading and documentation are accepted as one integrated set.

AREA	VERIFICATION	RECORD	ACCEPTANCE
Quantity	Weighbridge or vessel quantity measurement	Weight certificate	Contract tolerance
Quality	Representative sample and laboratory	Certificate of Analysis	Parameter limits
Appearance	Colour and foreign-matter inspection	Photographs and field report	Cleanliness
Packaging	Bag, stitching, label, net kg	Packing report	No damage
Loading	Lot, seal, timing and site	Inspection report	Plan compliance

**INSPECTI
ON / 01**

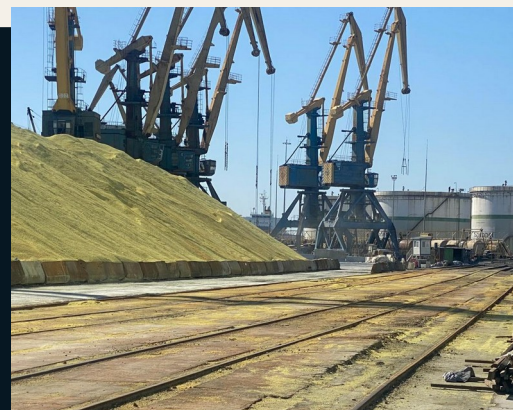
Field inspection complements laboratory data with the physical product and loading conditions.

Product, quality and logistics movements complete one coherent operational story throughout the catalogue.



EVIDENCE
/ 01

Quayside stock and vehicle movement;
physical product visibility before shipment.



EVIDENCE
/ 02

Port
infrastructure
and open stock



EVIDENCE
/ 03

Packaging and
vehicle
preparation

ROLE OF THE VISUAL

Photography is an evidence layer that documents product form, field conditions, equipment and the operational stage.

Packaging is defined according to the buyer's unloading system and transport chain.

BULK

High volume • hold cleanliness • vessel quantity measurement • cargo distribution

BIG BAG

Typical 500-1,250 kg* • liner • loops • label • net kg

BAGGED

Typical 25 or 50 kg* • layers • stitching • pallet • stretch wrap

CONTAINER

Bag / big bag / liner • verified gross mass • floor load • seal



PACKAGING / 01

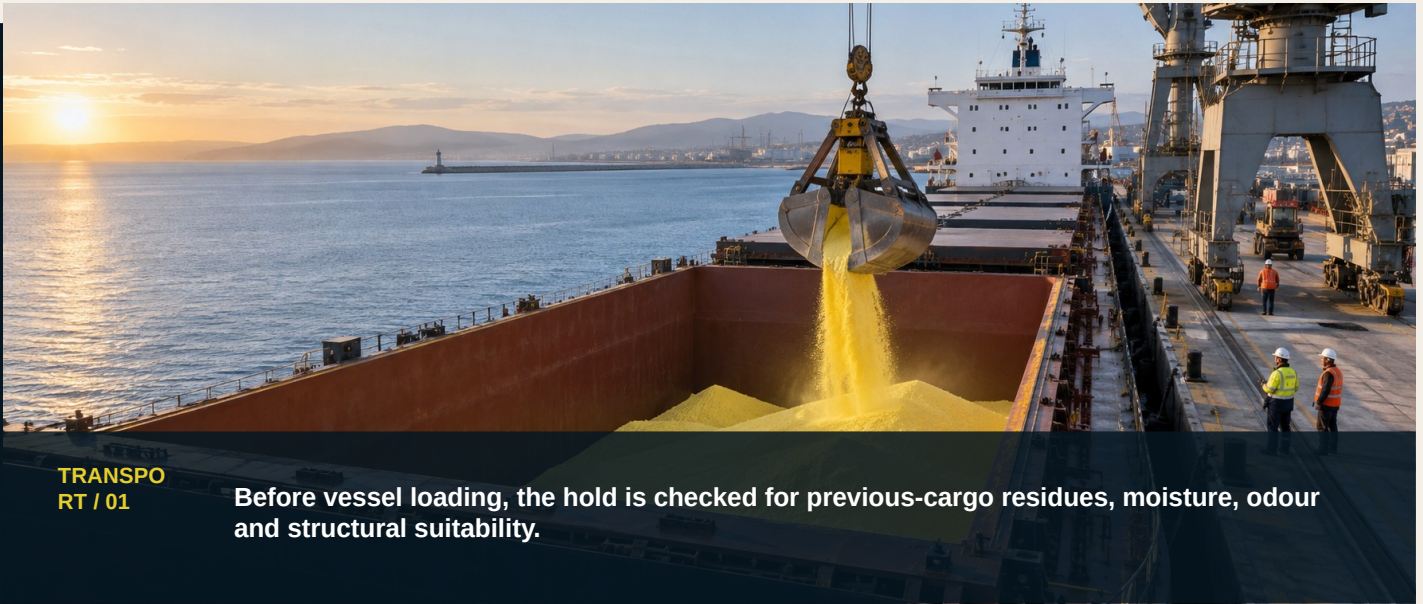
Big-bag construction is defined by fabric, liner, lifting loops, stitching, label and net weight.

* Final packaging weight, tolerance and construction are specified in the sales contract.

PACKAGING ACCEPTANCE

Visual inspection + net weight + condition + label

Product is loaded only when the cargo space is clean, dry and structurally suitable.



CONTROL	RISK	VERIFICATION	DECISION
Cleanliness	Previous cargo and foreign matter	Visual record	Accept / reject
Dryness	Moisture and caking	Surfaces, covers and drainage	Must be dry
Odour	Chemical contamination	Sensory inspection	Odour-free
Structure	Tearing and leakage	Carrier approval	Suitable
Fire	Ignition source	Permit and equipment	Planned

Every step from commercial request to delivery close-out has a defined owner and evidence record.

01 REQUEST

Product • use • quantity

02 MATCHING

Source • form • specification

03 PRELIMINARY EVIDENCE

Sample • historical Certificate of Analysis

04 CONTRACT

Price • delivery • acceptance

05 ALLOCATION

Lot • stock • loading plan

06 INSPECTION

Sample • quantity • packaging

07 DOCUMENTATION

Origin • Safety Data Sheet • transport

08 DELIVERY

Bill of lading • close-out

Each stage produces a measurable output before the next stage begins.

The bank, customs, carrier and buyer receive one consistent file describing the same cargo.

COMMERCIAL DOCUMENTS

Sales contract
Commercial invoice
Weight or packing list

TRANSPORT DOCUMENTS

Bill of lading / CMR
Seal and container list
Weight or vessel quantity measurement

PRODUCT DOCUMENTS

Certificate of Analysis
Safety Data Sheet
Inspection report

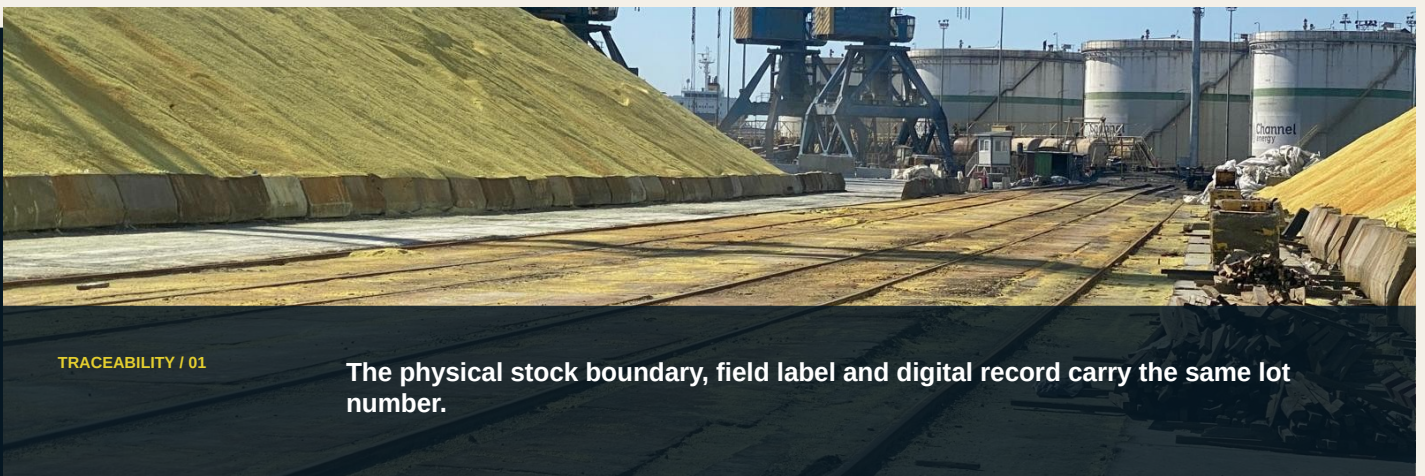
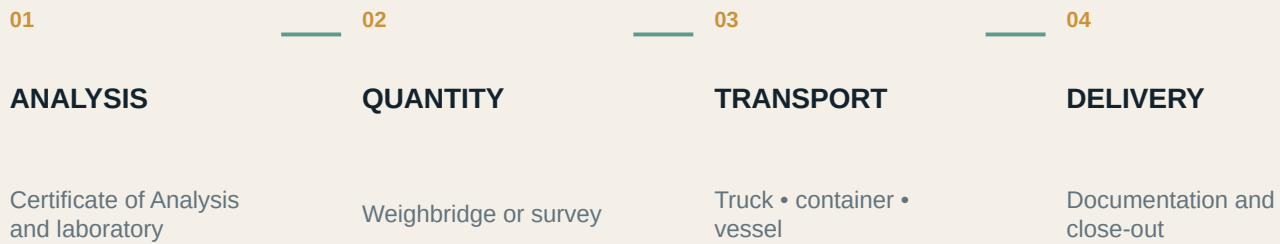
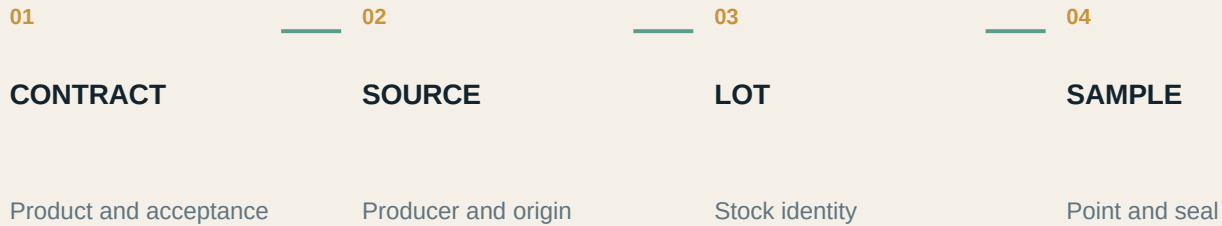
ORIGIN AND COMPLIANCE

Certificate of Origin
Customs documents
Country and contract appendices

DOCUMENT RULE

Product description, quantity, date, means of transport, lot and party details must be consistent across all documents.

Every shipment is linked to one verifiable data chain from producer to delivery point.



The contract defines the witness sample, umpire laboratory and document precedence for dispute resolution.

Sulphur is maintained in a dry, clean, segregated and recorded stock system.



STORAGE
/ 01

Covered storage protects against precipitation and external contaminants; site conditions are verified for each transaction.

FLOOR

Sound, clean, impermeable and with controlled drainage.

PRECIPITATION

Protection against water ingress under cover or suitable sheeting.

LOT SEGREGATION

Physical boundary, field label and digital stock record.

TEMPERATURE

Control of hot spots and unsuitable heat sources.

INVENTORY

First-in-first-out, weighing and periodic reconciliation.

Ignition, static, dust and confined-space risks are controlled together.

IGNITION

Open flames, sparks, hot surfaces and smoking are controlled.

GROUNDING

Bonding and suitable equipment are used to control static charge.

POWDER

Enclosed transfer, routine cleaning and extraction are provided.

PERSONAL PROTECTION

Eye, hand, respiratory and clothing protection are selected according to the Safety Data Sheet.

VENTILATION

Gas testing and entry procedures are applied in confined spaces.

DIVISION

Kept away from strong oxidisers and incompatible materials.

PRIMARY
DOCUMENT

Current Safety Data Sheet for the offered product and the site emergency plan.

Classification and transport conditions are governed by the current Safety Data Sheet.

UN 1350

SULPHUR / CLASS 4.1 / FLAMMABLE SOLID

For elemental sulphur shipments, product temperature, physical form, packaging, special provisions and national requirements are controlled against the current Safety Data Sheet, IMDG, ADR/RID and carrier acceptance.

LUMP SULPHUR

UN 1350

LIQUID SULPHUR

UN 2448

DOCUMENT PRIORITY

Current Safety Data Sheet + transport regulations

SHIPPING FILE

Safety Data Sheet • dangerous-goods declaration • transport document • emergency information

Understanding product behaviour enables the right quality questions.

SOUR-GAS TREATMENT

The H₂S-containing gas stream is separated.

ACID-GAS PREPARATION

The H₂S-rich stream is fed to sulphur recovery.

CLAUS UNIT

H₂S is converted to elemental sulphur through controlled reactions.

TAIL-GAS TREATMENT

Residual sulphur compounds are reduced.

LIQUID SULPHUR

Degassing and controlled storage are performed.

SOLIDIFICATION

Converted into granular, lump or another commercial form.



PROCESS / 01

Sour-gas treatment and sulphur recovery form the technical basis of product quality and physical form.

This process chain explains why purity, ash, acidity, moisture and product form are controlled together.

Solid sulphur may undergo controlled melting and purification in the buyer’s process.



PROCESS
/ 02

Granular, lump and powder forms may differ in melting, filter loading and feeding behaviour.

01

FEEDING

Solid product and dosing

02

MELTING

Temperature and circulation

03

NEUTRALISATION

Acidity control

04

FILTRATION

Ash and fine solids

01

POLISHING

Fine filtration

02

STORAGE

Clean liquid sulphur

03

MEASUREMENT

Temperature • pressure
• level

04

TRANSFER

Process feed point

The actual plant configuration is verified against feedstock analysis, equipment manufacturer data and the buyer’s process engineering.

Cold spots, corrosion, fines, dust and fire are interdependent risks.

COLD SPOT

May increase condensation and corrosion risk.

FINES

May increase filter load, dust and product loss.

DUST COLLECTION

Enclosed extraction is required at transfer points.

FIRE

Hot surfaces and ignition sources are controlled.

MEASUREMENT

Temperature, pressure, level and flow are monitored.

MAINTENANCE

Cleaning, access and safe isolation are planned.

IMPACT ON PRODUCT SELECTION

Purity, ash, acidity, fines, moisture and physical form directly affect the buyer's equipment load.

Product selection is governed by the technical acceptance requirements of the end-use process.



APPLICAT
ION / 01

Principal sulphur applications include sulphuric acid, fertilisers, mining, metallurgy, rubber and chemicals.

SULPHURIC ACID

A key intermediate for fertiliser and chemical production.

PHOSPHATE / FERTILISER

Phosphoric acid and plant-nutrition value chain.

MINING

Leaching and hydrometallurgical processes.

METALLURGY

Ore and metal-processing applications.

RUBBER

Vulcanisation and physical-property control.

CHEMICALS / AGRICULTURE

A wide range of derivatives and specialised uses.

Product, documentation, port and plant acceptance are aligned in one file before loading.

CN

For China-bound deliveries, product description, customs classification, Chinese-language documentation, acceptance laboratory, unloading system and dispute procedure are finalised for each transaction.

01	PRODUCT DESCRIPTION	02	QUALITY
	Required local-language documents accompanying the master file		Lot Certificate of Analysis and acceptance laboratory
03	ORIGIN	04	CUSTOMS
	Producer, facility and transport chain		HS classification and importer check
05	DISCHARGE	06	DISPUTE
	Port and plant unloading plan		Witness sample and umpire laboratory

Current national requirements are verified by the importer and local adviser before the transaction.

The import file, intended use, port conditions and tropical logistics are planned together.

BR

For Brazil-bound deliveries, destination port, importer registrations, intended use, local-authority requirements, Portuguese-language documentation, moisture and packaging strength are verified.

01 IMPORTER

Registration and local-authority verification

02 CLASSIFICATION

NCM / HS code check

03 LOCAL AUTHORITY

Requirement based on intended use

04 CLIMATE

Tropical humidity and packaging strength

05 TERMINAL

Port acceptance and discharge plan

06 SCHEDULE

Demurrage and operating schedule

Current national requirements are verified by the importer and local adviser before the transaction.

Multi-continent delivery through Black Sea, Eastern Mediterranean and Gulf gateways.

Active commercial reach

The countries below are active export and delivery markets reported by TUAY GROUP; the network extends beyond them.

CN

CHINA

High-volume industrial buyers

Bulk / container

BR

BRAZIL

Fertiliser and chemical industries

Bulk / port delivery

IN

INDIA

Process and fertiliser market

Bulk / container

US

UNITED STATES

Industrial user network

As contracted

TR

TÜRKİYE

Import, domestic delivery and re-export

Mersin bonded warehouse

ES

SPAIN

European industrial market

Sea delivery

OTHER MARKETS

New countries and buyers are activated transaction by transaction according to import regulations, terminal acceptance, technical specification and delivery model.

A complete enquiry clarifies quality and delivery risk as well as price.

01

PRODUCT

Granular / lump / powder

02

SPECIFICATION

Parameters and limits

03

QUANTITY

Lot / monthly / annual

04

DELIVERY

Incoterm / port / terminal

05

PACKAGING

Bulk / big bag / bagged

06

SCHEDULE

First loading and
programme

07

INSPECTION

Company / method /
umpire

08

PAYMENT

Instrument and document
conditions

09

END USE

Plant / process /
unloading

export@tuaygroup.com • +90 850 309 76 83



SULVORA
ELEMENTAL SULPHUR

TECHNICAL ASSURANCE FROM SOURCE TO LOT

**Producer • facility • product grade • supply specification • lot COA •
independent inspection**

TM	Türkmengaz / Galkynysh
CN	CNPC / Bagtyyarlyk
UZ	Uzbekneftegaz / Mubarek
KZ	TCO / Tengiz
IQ	SOMO channel / Iraqi sources
SA	Aramco / ATC

Each source is presented in one technical file comprising facility identity, supply grade, lot COA and independent inspection record.

Four evidence layers describing the same lot.

01 SOURCE AND FACILITY IDENTITY

Producer, production site, product form and capacity

02 SUPPLY SPECIFICATION

Contract limits by origin, product form and customer process

03 LOT COA

Laboratory values and analysis method for the shipped lot

04 INDEPENDENT INSPECTION

Sampling, quantity, seal, loading and analysis when required

BINDING BASIS

Signed contract + COA matching the lot number + agreed inspection report

TURKMENGAZ STATE CONCERN

Galkynysh Gas Field • sulphur recovery

FACILITY PROFILE

GALKYNYSH

Technical sulphur recovered during sour natural-gas treatment is integrated into the Poti programme with origin, producer and lot identity preserved.

PRODUCTION SOURCE

Galkynysh

SUPPLY GRADE

GOST / TDS 127.1-93 • 9995

QUALITY ASSURANCE

COA+ independent inspection

High-volume technical sulphur supply supported by gas-processing and sulphur-recovery infrastructure.

Contractual grade used for high-purity granular and lump sulphur within the SULVORA programme.

Chemical values, physical form and loading conformity are verified for every shipment lot.

GALKYNYSH — TECHNICAL SPECIFICATION

High-purity technical gas sulphur • GOST / TDS 127.1-93

SULVORA GRADE: 9995

The Galkynysh supply programme is based on high purity and controlled lot acceptance.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Total sulphur (S)	≥ 99.95% by mass	Lot COA
Ash	≤ 0.03% by mass	Lot COA
Organic matter / carbon	≤ 0.03% by mass	Lot COA
Acidity as H ₂ SO ₄	≤ 0.003% by mass	Lot COA
Moisture	≤ 0.20% by mass	COA + loading inspection
Physical form / size	Granular / lump • as contracted	Field inspection

TECHNICAL VERIFICATION RULE

Final shipment values are recorded against contractual limits and the lot-specific COA.

CNPC INTERNATIONAL TURKMENISTAN

Bagtyyarlyk Contract Area • Gas Processing Plant No. 1

TDS 1017.1-2017 / SORT
9990



PRODUCT

Lump sulphur

PROGRAMME LOT

50,000 t / quarter

SUPPLY GRADE

Grade 9990

The high-volume Bagtyyarlyk programme is managed in one supply file covering facility, product grade, lot COA and loading documents.

PRODUCTION AND SUPPLY PROGRAMME

Bagtyyarlyk • Plant No. 1 • lump sulphur • 200,000 t/y • 50,000 t/quarter programme • TDS 1017.1-2017 Grade 9990

Grade 9990 supply class and lot-verification values.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Total sulphur (S)	Grade 9990: $\geq 99.90\%$	Verified in the lot COA
Ash	$\leq 0,05\%$	Verified in the lot COA
Organic matter	$\leq 0.06\%$	Verified in the lot COA
Acidity as H_2SO_4	$\leq 0,004\%$	Verified in the lot COA
Water	$\leq 0,20\%$	Lot COA + loading inspection
Mechanical impurities	Not permitted	Field inspection

The numerical matrix is the supply basis aligned with TDS 1017.1-2017 Grade 9990 and GOST 127.1-93 class limits.

TECHNICAL VERIFICATION RULE

Each lot is verified by the producer's COA covering the same parameters and the inspection method defined in the contract.

UZBEKNEFTEGAZ JSC

Mubarek Gas Processing Plant • Kashkadarya

FACILITY + CAPACITY
PROFILE

MUBAREK

Technical sulphur from natural-gas treatment; a major Central Asian supply hub with granular and lump production lines.

- 01 **GRANULATION LINE** 80,000 t/y production capacity
- 02 **LUMP PRODUCT** Production profile up to 280,000 t/y
- 03 **SHIPMENT PREPARATION** Conveyor • rail wagon • big bag
- 04 **QUALITY GATE** Grade 9995 + lot COA + inspection

Mubarek connects granular and lump sulphur to high-volume rail and port programmes.

MUBAREK — TECHNICAL SPECIFICATION

Technical gas sulphur • granular and lump product programme

SULVORA GRADE: 9995

The Mubarek supply programme is managed to GOST 127.1-93 Grade 9995.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Total sulphur (S)	≥ 99.95% by mass	Lot COA
Ash	≤ 0.03% by mass	Lot COA
Organic matter / carbon	≤ 0.03% by mass	Lot COA
Acidity as H ₂ SO ₄	≤ 0.003% by mass	Lot COA
Moisture	≤ 0.20% by mass	COA + loading inspection
Granular / lump size	According to contract and form	PSD + field inspection

TECHNICAL VERIFICATION RULE

Production grade, product form and shipment values are linked under the same lot number in the lot COA.

TENGIZCHEVROIL LLP (TCO)

Tengiz • sulphur production, granulation and marketing

GRANULAR + LUMP

40.000

TONNES / MONTH

Officially stated capacity of the granulation plant commissioned in 2021.



PRODUCT

Granular + lump

MARKETS

Africa • Europe • China

COMMERCIAL MODEL

End-user priority

The Tengiz source provides scaled production infrastructure linking granular and lump sulphur to high-volume international delivery programmes.

TECHNICAL VERIFICATION RULE

Source allocation, product form, supply specification and lot COA are managed within one contractual file.

Supply specification for Tengiz-origin granular and lump sulphur.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Product form	Granular / lump	Contract + field inspection
Total sulphur (S)	≥ 99.90% by mass	Lot COA
Ash	≤ 0.05% by mass	Lot COA
Organic matter / carbon	≤ 0.05% by mass	Lot COA
H ₂ SO ₄ acidity / moisture	≤ 0.01% / ≤ 0.50%	COA + loading inspection
Granule size	Nominal 2–8 mm	Sieve analysis + field inspection

TECHNICAL VERIFICATION RULE

Final product grade and physical acceptance limits are specified in the contract according to the customer's process.

SOMO STATE MARKETING CHANNEL

Iraqi sulphur production sources • export and sales programme

MERSIN CONNECTION

IRAQ

Producer identity, SOMO sales channel and the actual lot are recorded separately.

MONTHLY PROGRAMME

Approximately 30,000 t/month FOB sulphur programme

SOURCE FACILITIES

North Gas • Midland/Ahdab • Badra • Maysan/Buzurgan • Halfaya

MERSIN FLOW

Bonded-warehouse entry, lot segregation, inspection and re-export

QUALITY FILE

SOMO sales document + producer COA + SGS inspection report

For every shipment, production source, product form, lot analysis and SGS field records are matched within the same delivery file.

SGS Iraq inspection: report identity, stock and physical product.



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INSPECTION REPORT

Report No: SGS-IRAQ-2025-028

SGS Job Order No: 503206

Report Revision: 0

Date: 14.09.2025



Lump sulphur / physical product appearance



Iraq field stock / independent report image

REPORT NO.

SGS-IRAQ-2025-028

JOB ORDER

503206

DATE / REV.

14.09.2025 / 0

INDEPENDENT INSPECTION

The SGS report identity, field stock, physical product appearance and sampling records form the shipment's independent quality-assurance chain.

REPRESENTATIVE SAMPLING

Field stock • multi-point sampling • personnel record

VISUAL TRACEABILITY



- 01 **FIELD**
Stock area and lot identification
- 02 **SAMPLING**
Samples from multiple points
- 03 **COMPOSITING**
Representative composite sample
- 04 **DIVISION**
Witness / laboratory samples
- 05 **RECORD**
Label, seal and report linkage

Multi-point field sampling links the composite, witness and laboratory samples under the same lot identity.

SP-1 → SP-5

Labelled physical samples and segregated containers

SAMPLE IDENTITY



SP-1

SP-2

SP-3

SP-4

SP-5

TRACEABILITY

The technical chain of evidence is complete when sample codes match the lot number, date, seal number, sampler and laboratory handover record.

Production sources and actual product values in the SOMO sales file.

01

NORTH GAS COMPANY

Lump / friable block

S ≥ 99.80% • Organic ash 0.08% • Inorganic ash ≤ 0.12% • Acidity ≤ 0.01% • Moisture 0.05%

02

MIDLAND OIL / AHDAB

Briquette — measured result

S 99.9134% • Water 0.0624% • Ash 0.0025% • Acidity 0.0013% • Organic matter 0.0124%

03

BADRA FIELD

Briquette

S > 99.80% dry basis • Organic ash < 0.04% • Inorganic ash < 0.01% • Acidity < 0.015% • Moisture < 0.50% • H₂S < 10 ppm

04

BADRA FIELD

Granular

S > 99.80% • Moisture < 0.50% • Nominal 2–6 mm • Loose bulk density ≥ 1,040 kg/m³ • Compacted ≥ 1,200 kg/m³

05

MAYSAN / BUZURGAN

Solid sulphur

S > 99.00% • Ash < 0.20% • Acidity < 0.02% • Moisture 2.00% • Yellow, solid appearance

SHIPMENT ACCEPTANCE

Source line + product form + lot COA + SGS sampling and inspection record

SAUDI ARAMCO

Sulphur product portfolio • ATC channel for international trade

TERMINAL-BASED

ARAMCO

Sulphur is formally included in the product portfolio.

ATC

International commercial sales and source management are conducted through Aramco Trading Company.

LOADING NETWORK
**Jubail • Ras
Tanura • Yanbu •
Jizan**

SUPPLY SPECIFICATION

S ≥ 99.90%

The actual terminal, product form and allocation are confirmed in the sales document.

Terminal, product form, contractual limits and lot COA are consolidated in the same allocation file.

ARAMCO / ATC — TECHNICAL SPECIFICATION

Granular sulphur programme from Gulf and Red Sea gateways

SULVORA GULF GRADE

The Aramco/ATC supply programme is managed on the basis of high purity and controlled granule-size distribution.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Total sulphur (S)	≥ 99.90% by mass	Lot COA
Ash	≤ 0.03% by mass	Lot COA
Hydrocarbon / organic matter	≤ 0.05% by mass	Lot COA
Acidity as H ₂ SO ₄	≤ 0.02% by mass	Lot COA
Moisture	≤ 0.50% by mass	COA + loading inspection
Granule size	Nominal 2–6 mm	Sieve analysis + field inspection

TECHNICAL VERIFICATION RULE

Source terminal, vessel programme, product specification and lot COA are finalised in one allocation file.

GOST 127.1-93 grades define the acceptance threshold, not the producer's lot.

PARAMETER	SUPPLY SPECIFICATION	LOT VERIFICATION
Sulphur, % minimum	9998 / 9995 / 9990	99.98 / 99.95 / 99.90
Ash, % maximum	9998 / 9995 / 9990	0.02 / 0.03 / 0.05
Organic matter, % maximum	9998 / 9995 / 9990	0.01 / 0.03 / 0.06
Acid as H ₂ SO ₄ , % maximum	9998 / 9995 / 9990	0.0015 / 0.003 / 0.004
Water, % maximum	All three grades	0.20
Mechanical impurities	All three grades	Not permitted

Limits are evaluated on a dry-matter basis. Export lump sulphur must contain no pieces larger than 200 mm. Sampling and test methods must be stated in the contract.

TECHNICAL VERIFICATION RULE

Standard grade + producer's offer appendix + lot COA + agreed inspection are read together.

Verified information and complete acceptance documentation for every source.

SOURCE	FACILITY	SUPPLY BASIS	LOT ACCEPTANCE
TÜRKMENGAZ	Galkynysh	Production evidence	Offer + lot COA
CNPC TM	Bagtyyarlyk	TDS Grade 9990 + volume	Lot COA
UZBEKNEFTEGAZ	Mubarek	Form + capacity	Offer + lot COA
TCO	Tengiz	Form + 40,000 t/month	TCO document + lot COA
IRAQ / SOMO	NGC / Maysan-Halfaya	Tender channel + SGS field evidence	Producer COA + results report
ARAMCO / ATC	Terminal-based	Product + facility network	Terminal/lot COA

DECISION RULE

General catalogue < producer's offer appendix < signed contract < actual lot COA + agreed inspection

Operations, sources, quality and market strength converge in one commercial file.

01

OPERATIONS

35,000 MT/MONTH

Poti 30,000 • Mersin 5,000

Monthly programme declaration

02

SOURCE

6 SOURCE FAMILIES

Turkmenistan • Uzbekistan • Kazakhstan • Iraq • Gulf

Producer / facility profiles

03

QUALITY

LOT-BASED

Specification • COA • sampling • independent inspection

SGS field evidence

04

MARKET

6 ACTIVE COUNTRIES +

China • Brazil • India • USA • Türkiye • Spain

Global market reach

OUTCOME / Strength comes not from claims, but from a complete chain of evidence describing the same lot.



SULVORA

ELEMENTAL SULPHUR

STRENGTH BEGINS WITH THE CHAIN OF EVIDENCE.

35,000 MT/MONTH

Declared integrated operational programme

6 SOURCE FAMILIES

Central Asia • Iraq • Gulf

3 PRODUCT FORMS

Granular • lump • powder

1 CONTROL SYSTEM

Lot • COA • inspection • documentation

Verifiable product. Controlled operations. Contractual delivery discipline.

One commercial coordination point, four regional access points.

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