

MANGANESE. PROCESSED. SUPPLIED.

OSAN Mining conducts manganese extraction, ore processing and stockpile management operations across Türkiye.

Export execution and international trade coordination are performed through TUAY Group.

Quality-controlled operations.
Reliable supply.

EXPLORE OPERATIONS →



75,000 MT

MANGANESE
CAPACITY



27,000 MT

MANGANESE
EXPORT VOLUME
TUAY GROUP



18,000 MT

MARBLE
CAPACITY



4,000 MT

MARBLE
EXPORT VOLUME
TUAY GROUP



10+

EXPORT
MARKETS



31,000 MT / MONTH

TOTAL EXPORT VOLUME
TUAY GROUP

OSAN MINING AT A GLANCE



35+
MILLION MT
RESOURCE BASE



22+
YEARS
MINE LIFE



210+
DIRECT
WORKFORCE



1.12
MILLION MT
ANNUAL PRODUCTION
CAPACITY



372,000 MT
ANNUAL EXPORT
CAPACITY



USD 95M+
ANNUAL EXPORT
VALUE



USD 120M+
ANNUAL BUSINESS
VOLUME



MINING OPERATIONS



ORE PROCESSING



QUALITY ASSURANCE



EXPORT VIA TUAY GROUP

ABOUT OSAN MINING

INTEGRATED MINING, PROCESSING AND EXPORT PLATFORM ACROSS TÜRKİYE

OSAN Mining operates an integrated mining platform focused on manganese ore and natural stone resources across Türkiye. Through active mining regions, processing infrastructure and export-oriented operations, the company delivers reliable mineral supply solutions to industrial buyers in international markets.

Supported by OSAN Holding's industrial structure, OSAN Mining combines resource ownership, operational discipline and international market access within a single value chain.



35+
MILLION MT
RESOURCE BASE



22+
YEARS
ESTIMATED MINE LIFE



210+
DIRECT WORKFORCE



3
ACTIVE MINING REGIONS



75,000 MT
MONTHLY
MANGANESE CAPACITY



18,000 MT
MONTHLY
MARBLE CAPACITY

ACTIVE MINING REGIONS

Strategically located mining regions with manganese ore resources and proven operational experience.



AĞRI
30-34% Mn
manganese ore operations.



ERZİNCAN
26-30% Mn
manganese ore operations.



ERZURUM
23-28% Mn
manganese ore operations.

GLOBAL EXPORT STRUCTURE

Supplying manganese ore and natural stone to 10+ international markets with a reliable and long-term export approach.



10+
EXPORT MARKETS



OPERATIONAL DISCIPLINE

Safety, efficiency and operational excellence in every stage of our operations.



QUALITY CONTROL

Consistent quality assurance from mine to customer.



EXPORT STRUCTURE

Integrated operations and logistics network serving international markets.

PRODUCT & TECHNICAL SPECIFICATIONS

Commercial Grade Classification & Indicative Technical Reference Bands

The product classification is structured around three regional manganese ore grades used for customer evaluation, supply planning and shipment-specific quality control.



TECHNICAL SPECIFICATION MATRIX

PARAMETER	GRADE A AĞRI REGION	GRADE B ERZİNCAN REGION	GRADE C ERZİURUM REGION
Region	Ağrı	Erzincan	Erzurum
Mn	30 – 34%	26 – 30%	23 – 28%
Fe	5 – 12%	6 – 16%	8 – 18%
SiO ₂	8 – 22%	10 – 28%	12 – 32%
Al ₂ O ₃	3 – 9%	4 – 10%	4 – 12%
P	≤ 0.20%	≤ 0.25%	≤ 0.30%
S	≤ 0.10%	≤ 0.10%	≤ 0.10%
Moisture	≤ 8%	≤ 10%	≤ 10%
Size	10 – 70 mm	10 – 70 mm / 0 – 60 mm	0 – 60 mm

AVAILABLE PRODUCT FORMS



LUMP ORE
10 – 70 mm



SCREENED ORE
10 – 70 mm



SIZED ORE
0 – 60 mm



BULK LOOSE FORM
Bulk material suitable for bulk handling



TRUCK-COMPATIBLE LOADING FORM
Suitable for domestic truck loading

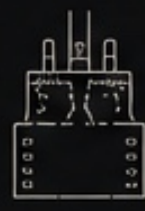


CONTAINER-COMPATIBLE LOADING FORM
Suitable for containerized shipments

INDUSTRIAL SUITABILITY – TYPICAL EVALUATION RANGES



STEEL PRODUCTION
Typical evaluation
range:
30 – 34% Mn



SILICOMANGANESE
Typical evaluation
range:
26 – 34% Mn



FERROMANGANESE
Typical evaluation
range:
26 – 34% Mn



MINERAL BLENDING
Typical evaluation
range:
23 – 30% Mn



FOUNDRY APPLICATIONS
Typical evaluation
range:
26 – 34% Mn

RESOURCE REGIONS

Three Regional Manganese Ore Zones
Across Türkiye's Eastern Mining Belt

Resource availability is structured across
three regional manganese ore zones in Eastern
Türkiye, providing diversified grade distribution
and long-term supply flexibility for industrial
consumers.



Eastern Türkiye
Mining Belt



Three Distinct
Ore Zones



Commercial Mn
Bands Classified



Shipment-Specific
Supply Planning



AĞRI REGION

30–34% Mn

Grade A Ore Zone

High-grade regional
manganese ore source.



ERZİNCAN REGION

26–30% Mn

Grade B Ore Zone

Mid-grade manganese
ore source structured for
industrial supply.



ERZURUM REGION

23–28% Mn

Grade C Ore Zone

Regional manganese
ore source for standard
industrial applications.



Commercial manganese bands shown are indicative regional classification ranges and remain subject to
shipment-specific sampling, laboratory verification and final Certificate of Analysis (COA).

QUALITY CLASSIFICATION

Commercial Grade Structure For Industrial Manganese Ore Supply



GRADE A ORE

30–34% Mn

High-grade commercial manganese ore band for industrial evaluation and higher-grade industrial evaluation programs.



GRADE B ORE

26–30% Mn

Balanced commercial manganese ore band suitable for standard industrial supply planning and blending requirements.



GRADE C ORE

23–28% Mn

Standard commercial manganese ore band for selected industrial applications and contract-defined supply programs.

QUALITY VERIFICATION PROCESS



REPRESENTATIVE SAMPLING

Samples collected from multiple points to ensure representative quality.



SIZING CHECK

Ore is screened and checked for nominal size distribution.



LABORATORY VERIFICATION

Chemical composition analyzed through authorized laboratories.



COA REVIEW

Results reviewed against commercial grade reference bands.



COA-BASED APPROVAL

Shipment approved based on COA and contract requirements.



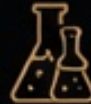
Grade classification values are indicative commercial reference bands. Final shipment quality remains subject to sampling, laboratory analysis and Certificate of Analysis (COA).

MANGANESE ORE QUALITY CONTROL

OSAN Mining applies rigorous quality control procedures to ensure that all manganese ore shipments meet commercial specifications and customer requirements. From sample preparation to laboratory analysis and final review, every step is performed with accuracy, traceability and consistency.



ACCURATE
SAMPLING



LABORATORY
ANALYSIS



SPECIFICATION
REVIEW



QUALITY
ASSURANCE



01

SAMPLE PREPARATION

- Sample Collection
- Drying
- Crushing / Reduction
- Representative Sample Splitting

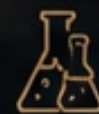
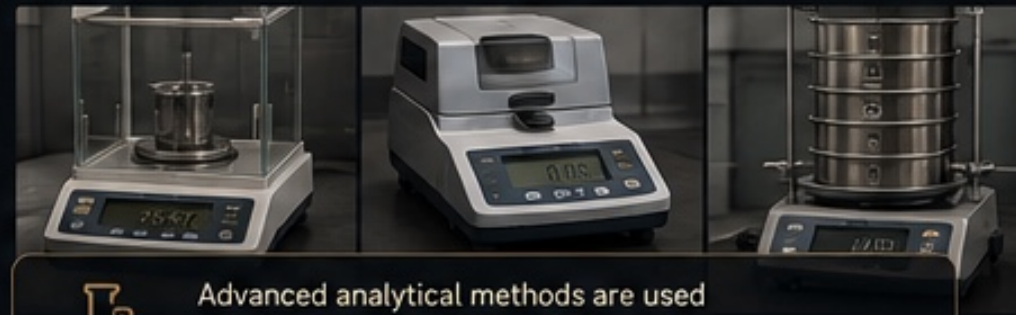


Representative and reliable samples are the foundation of accurate analysis.

02

LABORATORY EVALUATION

- Manganese (Mn) Evaluation
- Iron (Fe) Evaluation
- Silica (SiO₂) Evaluation
- Alumina (Al₂O₃) Evaluation
- Moisture Evaluation
- Particle Size Distribution Analysis



Advanced analytical methods are used to determine the chemical and physical properties of the ore.

03

QUALITY REVIEW

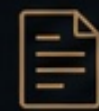
- Grade Classification
- Commercial Specification Review
- Shipment Matching



Every shipment is reviewed and matched against specifications before release to ensure customer satisfaction.



TRACEABILITY
Full traceability from sampling to shipment.



DOCUMENTATION
All results are recorded and documented for transparency.



RELIABILITY
Consistent procedures ensure reliable and repeatable results.



CUSTOMER FOCUS
Quality oriented approach to meet project and market requirements.

INDUSTRIAL APPLICATIONS

Supporting Steel, Ferroalloy And Industrial Mineral Production

Manganese ore is an essential industrial raw material used across steelmaking, ferroalloy production, foundry operations and mineral processing sectors.

The product supports metallurgical performance, alloy development, material conditioning and industrial mineral blending applications throughout international industrial production chains.



STEEL PRODUCTION

Improving hardness, strength and wear resistance in steel manufacturing.



SILICOMANGANESE

Key raw material supporting silicomanganese alloy production.



FERROMANGANESE

Used in high-carbon and medium-carbon ferromanganese production.



FOUNDRY INDUSTRY

Supporting casting quality and metallurgical performance.



INDUSTRIAL MINERAL BLENDING

Used in selected mineral preparation and blending applications.



STEEL MILLS



FERROALLOY PLANTS



FOUNDRIES



METALLURGICAL PROCESSORS



INDUSTRIAL MINERAL FACILITIES

END-USE INDUSTRIES



Applications listed represent common industrial utilization routes and may vary according to customer process requirements, metallurgical targets and product specifications.

CONTACT

CONTACT & GLOBAL OFFICES

Regional Offices, Mining Resource Locations And Project Communication Channels

OSAN Mining manages commercial communication, project coordination and operational documentation through its regional office structure and mining office and resource coordination network across Dubai, Türkiye and Georgia.



DUBAI
HEAD OFFICE

TÜRKİYE
OFFICE &
REGIONAL COORDINATION

GEORGIA
REGIONAL
COORDINATION OFFICE

1. HEAD OFFICE DUBAI



1 Sheikh Mohammed Bin Rashid Blvd.
Burj Khalifa No:287
Downtown Dubai
United Arab Emirates

info@osanholding.com

2. TÜRKİYE OFFICE ISTANBUL / MASLAK



Maslak Mah. Meydan Sok. No:1,
Beybi Giz Plaza Kat:15,
Sariyer, Istanbul, Türkiye

info@osanholding.com

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3. GEORGIA OFFICE KHELVACHAURI DISTRICT



Khelvachauri District
Village of Feria, 9th VI Lane No. 4
Georgia

georgia@osanholding.com

4. MANGANESE ORE RESOURCE REGIONS



- Ağrı Region
Ağrı / Doğubayazıt, Türkiye
Manganese Ore Resource Zone
- Erzincan Region
Erzincan / İliç-Kemaliye Belt, Türkiye
- Erzurum Region
Erzurum / Oltu-Tortum Belt, Türkiye

5. MARBLE RESOURCE REGIONS



- Diyarbakır Region
Diyarbakır / Hani-Lice
Natural Stone Belt, Türkiye
Light beige, fossil beige and
rose beige marble selection.
- Bandırma Region
Balıkesir / Bandırma
Natural Stone Region, Türkiye
White-grey linear marble and
dolomitic white marble selection.



GENERAL INQUIRIES
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BUSINESS HOURS
Mon – Fri: 09:00 – 18:00
(GMT+3)

For project inquiries, technical discussions,
quotations and operational coordination,
please contact the relevant OSAN Mining office.



PROJECT COMMUNICATION CHANNEL
For project inquiries, technical discussions,
quotations and operational coordination,
please contact the relevant OSAN Mining office.



All communications, project records and operational documentation
are managed under controlled confidentiality and document retention procedures.



www.osanmining.com

