



ÖNCÜ MADENCİLİK
1994

ONCU MINING

NATURAL MAGNESITE

SILICATE-BEARING GRADE FOR CERAMIC BODIES

THIRTY YEARS IN ANATOLIAN MINERALS

Öncü Madencilik was founded in Eskişehir in 1994 as a mining, engineering and consultancy firm. Regular extraction began in 2006. In 2016 the company ended its consultancy activities to concentrate entirely on mining, and has invested in its operations ever since.

Today we work our own licensed deposits in the Eskişehir basin and supply magnesite to the Turkish ceramic industry, including most of the country's largest tile manufacturers, as well as to export markets. We sell as the producer, without intermediaries.

1994 FOUNDED	4 MINING LICENCES HELD
1,710 ha TOTAL LICENSED AREA	4.35 Mt ESTIMATED RESERVES
2 ACTIVE OPERATIONS	20+ CERAMIC PLANTS SUPPLIED

Our material has been supplied to the European ceramic industry since 2022, shipped FOB Gemlik to a major Spanish tile producer. Customs documentation for that shipment is available on request.



KIREÇKÖY OPERATION, STOCKYARD

WHAT WE SELL, AND WHAT IT DOES

Natural magnesite (MgCO_3) in raw, uncalcined form. A silicate-bearing grade whose behaviour in a ceramic body differs from refractory-grade magnesite, and is better suited to it.

In a tile body, magnesite works as a secondary flux alongside feldspar. It lowers the peak firing temperature, raises mechanical strength and reduces water absorption. Because it acts strongly, it is used in small proportions, and the effect on gas consumption per fired tonne is direct. Dosage is set by the producer's own formulation.

LOWER FIRING TEMPERATURE

Published work on magnesium-bearing fluxes reports reductions in sintering peak of the order of 50 °C at optimum dosage.

HIGHER FIRED STRENGTH

Increases in green, dry and fired bending strength are reported for magnesite additions in wall and floor tile bodies.

LOWER WATER ABSORPTION

Denser vitrification at the same firing cycle, with firing shrinkage kept within standard once dosage is controlled.

PORCELAIN STONEWARE

FLOOR TILE BODIES

WALL TILE BODIES

ENGOBE / ROLLER COAT

BRICK & HEAVY CLAY



RUN-OF-MINE MATERIAL, AS SHIPPED

ANALYSIS

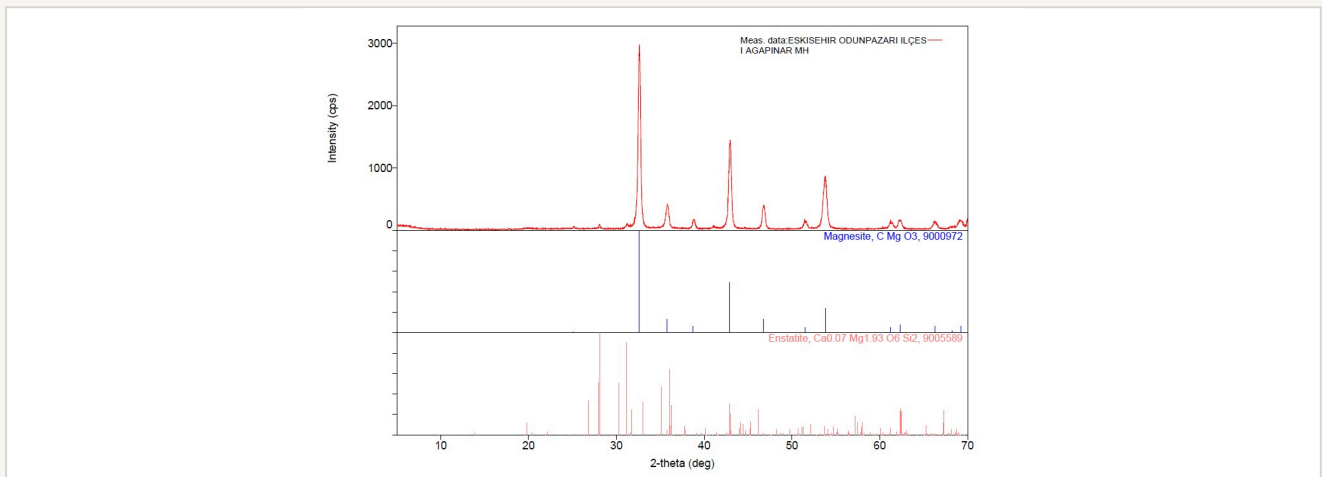
CHEMICAL COMPOSITION

OXIDE	MASS %
MgO	42.93
SiO ₂	5.09
CaO	1.40
Al ₂ O ₃	1.22
Fe ₂ O ₃	0.32
SO ₃	0.14
Na ₂ O	0.11
K ₂ O	0.09
P ₂ O ₅	0.05
Loss on ignition	48.65

MINERALOGY & PHYSICAL

PROPERTY	VALUE
Main phase (XRD)	Magnesite
Secondary phase	Enstatite
Free quartz	not detected
Moisture, 110 °C	seasonal *
Run-of-mine top size	approx. 300 mm
Colour	off-white
Form supplied	raw, uncalcined
HS code	2519.10
REACH	Annex V exempt

* Moisture varies with season. Material produced in the dry months is considerably drier than winter material. Moisture is determined and certified for every lot.



XRD PATTERN, SAM LABORATORY REPORT R26

TESTING

All figures above are taken from reports issued by **SAM, Seramik Araştırma Merkezi A.Ş.**, the ceramic research centre affiliated with Eskişehir Technical University. XRF was run on a Rigaku ZSX Primus and XRD on a Rigaku MiniFlex 600 over $2\theta = 5$ to 70° . Moisture by A&D MX-50 at 110°C . Report numbers R26 and R12 are supplied with every technical enquiry, and a certificate of analysis accompanies each shipment.

TWO NUMBERS WORTH READING CLOSELY

Buyers of ceramic-grade magnesite watch two impurities above all: free quartz, which causes pinholing in glaze, and dolomite, which brings unwanted CaO into the body. This deposit is unusual on both counts.

SILICA IS BOUND, NOT FREE

X-ray diffraction identifies the secondary phase as **enstatite**, a calcium-magnesium silicate, not free quartz. The 5.09% SiO₂ therefore enters the body already combined in a silicate lattice rather than as discrete quartz grains.

VERY LOW CALCIUM

At **1.40% CaO** the dolomite content of this material is minimal. Magnesite intended for ceramic bodies and glazes is specified as dolomite-free precisely because CaO shifts the flux balance.

POSITIONING AGAINST OTHER MAGNESITE GRADES

GRADE	MGO	SiO ₂	TYPICAL USE
Refractory grade	> 45%	< 1.7%	Furnace and kiln linings
Öncü ceramic grade	42.93%	5.09%	Ceramic body flux
Magnesite-based clay	approx. 39%	approx. 12.7%	Wall tile body

Our grade sits deliberately between the two: high enough in MgO to act as a strong flux, low enough in calcium and free of discrete quartz to be safe in the body. It is not offered as a refractory feedstock.



WORKING FACE, BEDDED DEPOSIT

DEPOSITS, PLANT AND SUPPLY

KIREÇKÖY OPERATION

Licensed area	860 ha
Estimated reserve	2,200,000 t
Method	Open pit
Flow	Excavate, load, stock

This is the deposit the ceramic-grade material comes from. It is worked without drilling or blasting and shipped raw, as delivered to date.

AKKÖPRÜ OPERATION

Licensed area	850 ha
Estimated reserve	2,150,000 t
Method	Drill, blast, excavate
Plant	Crush, screen, sort

Our second deposit, processed through jaw crushers, screens, a washing drum and magnetic separators.

INDICATIVE SUPPLY SCHEDULE

PERIOD FROM FIRST ORDER	T / MONTH
Months 1 to 6	5,000
Months 7 to 9	7,500
From month 10	10,000

Volumes shown are what we would commit to a single buyer under a supply agreement, ramped as the operation is scaled to that contract. Larger volumes can be discussed. Extraction is weather-dependent between November and May, and schedules are agreed against the season in which the first order is placed.

EQUIPMENT

2 × EXCAVATOR	2 × TRUCK	1 × LOADER
2 × TRAILER	2 × JAW CRUSHER	
1 × SCREEN	1 × WASHING DRUM	
2 × SORTING UNIT		
1 × DOUBLE-DECK MAGNETIC SEPARATOR		
1 × SINGLE-DECK MAGNETIC SEPARATOR		



SITE OFFICE AND WORKING STOCK

WHO BUYS THIS MATERIAL

Most of Turkey's large tile manufacturers are among our customers. Turkey is the world's fourth-largest ceramic tile producer, and these plants run the same body formulations, on the same equipment, as their European counterparts.

Kale Seramik A.Ş.	Termal Seramik A.Ş.	Pera Seramik A.Ş.
Kütahya Seramik A.Ş.	Graniser Granit Seramik A.Ş.	Etili Seramik A.Ş.
Güral Seramik A.Ş.	Decovita Seramik A.Ş.	Akgün Seramik A.Ş.
Ege Seramik A.Ş.	Söğüt Seramik A.Ş.	Karo Metro Seramik A.Ş.
Yurtbay Seramik A.Ş.	Anka Seramik A.Ş.	Doğanay Toprak A.Ş.
Seranit Granit Seramik A.Ş.	Arte Seramik A.Ş.	İzmir Seramik A.Ş.
Bien Seramik A.Ş.	Rhino Seramik A.Ş.	Granito Girarto

EXPORT RECORD

Buyer	Major tile producer, Spain
Shipped	30 May 2022
Terms	FOB Gemlik
Form	Bulk, raw, no crushing
Routed	via export agent

Until now our material has reached export markets through intermediaries. From 2026 export sales are handled in-house. For the buyer this means a single point of contact with the company that owns the deposit: technical questions answered by the producer, quality certified at source, delivery scheduled against our own extraction plan, and no trading margin in between.

SUPPLY, PACKING AND CONTACT

PACKING & SHIPMENT

Bulk	yes
Big bag	yes
Port of loading	Gemlik
Incoterms	FOB · CFR · CIF
EU duty	A.TR, nil

SIZING

Supplied raw as standard. Crushing and screening to 500 µm and above can be arranged for volume orders and is quoted separately.

DOCUMENTATION SUPPLIED

Certificate of analysis	per lot
XRF / XRD reports	SAM, accredited
A.TR movement certificate	yes
Certificate of origin	on request
Free sample	yes

LOCATIONS

Head office in Eskişehir. Kireçköy and Akköprü operations in Odunpazarı district. Loading port Gemlik, approximately 250 km by road.

EXPORT SALES

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DIRECT FROM THE PRODUCER · SAMPLES SUPPLIED ON REQUEST