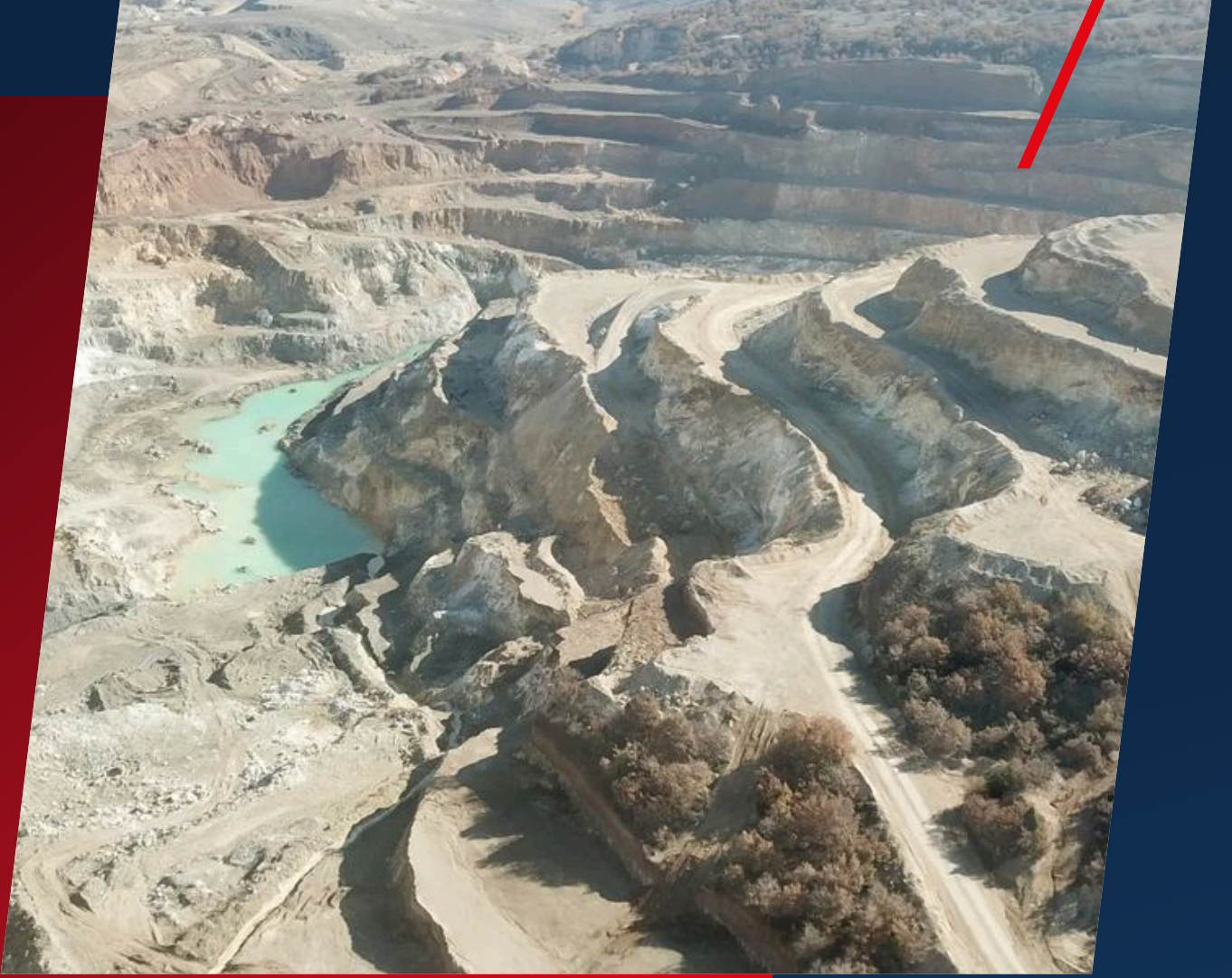




+ Product Catalogue · 2026

# MAGNESITE

Eskişehir's white ore. From our own licensed site at Ballık to industry since 1994.



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**“We turn Türkiye’s underground riches into value through hard work, knowledge and conviction.”**

# Bringing Eskişehir's magnesite to industry since 1994.



Our company was founded on 6 June 1994 by Gürsel Yıldız and Murat Yıldız as Yıldız İnşaat ve Madencilik Ltd. Şti. Today we work the magnesite mine at Ballık, within Satılmışoğlu in the Tepebaşı district of Eskişehir, under our own licence.

Since 2010 we have supplied our magnesite to markets in Türkiye and abroad. Our aim is to keep improving production and beneficiation by following technological developments, and to keep raising our quality and capacity.

Founded

**1994**

Exports

**2010**

Raw magnesite

**2–10<sub>cm</sub>**

Fine-grained

**0.5–2<sub>cm</sub>**



## Our site

# The Ballık magnesite site

Magnesite ore is taken as run-of-mine ore from the benched open pit on our licensed site. We manage the whole process, from crushing to shipment, on the same site with our own teams.

|          |                                |
|----------|--------------------------------|
| Location | Ballık, Tepebaşı / Eskişehir   |
| Licence  | Owned by the company           |
| Method   | Benched open pit               |
| Ore      | Magnesite ( $MgCO_3$ )         |
| Markets  | Türkiye and abroad, since 2010 |



✦ The ore

# What is magnesite?

Magnesite is a magnesium carbonate mineral. Fired into magnesium oxide (magnesia), it is the basis of the refractory materials that every high-temperature industry needs. 75% of the world's sintered magnesia is produced from magnesite.

Formula

**MgCO<sub>3</sub>**

MgO content (pure)

**about 47.8%**

Crystal system

**Trigonal (rhombohedral)**

Hardness

**3.5–4.5 Mohs**

Density

**~3.0 g/cm<sup>3</sup>**

Colour

**White, light grey**

**1.400 °C+**

**Sintered magnesia**

Basic refractory bricks and monolithics

**~900 °C**

**Caustic calcined magnesia**

Agriculture, building, chemicals,  
environment

# From pit to product

Run-of-mine ore is processed on two lines by grain size. At the end of both lines, the product is hand-sorted by colour.

01

## Open pit

Ore is taken from the benched open pit as run-of-mine.

02

## Crushing

Run-of-mine ore is reduced to workable sizes.

03

## Screening

Screens split the material into two lines: 2–10 cm and 0.5–2 cm.

04

## Washing

A washing drum removes clay and dust.

05

## Hand sorting

Our teams sort the ore by hand using colour.

06

## Magnetic separation

On the fine line, impurities such as serpentine are held back.

### Stage 1

Raw magnesite

**2–10 cm**

### Stage 2

Fine-grained raw magnesite

**0.5–2 cm**

# Raw magnesite

## 2–10 cm



Grain size range (not to scale)

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Grain size        | 2–10 cm                                                                  |
| Processing        | Crushing, screening, washing, hand sorting                               |
| Main uses         | Production of sintered and caustic calcined magnesia; refractories       |
| Chemical analysis | MgO, SiO <sub>2</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> · On request |
| Shipping          | Türkiye and abroad, as required                                          |

# Fine-grained raw magnesite

## 0.5–2 cm



Grain size range (not to scale)

|            |          |
|------------|----------|
| Grain size | 0.5–2 cm |
|------------|----------|

|            |                                            |
|------------|--------------------------------------------|
| Processing | Magnetic separation, washing, hand sorting |
|------------|--------------------------------------------|

|           |                                         |
|-----------|-----------------------------------------|
| Main uses | Calcination and industrial applications |
|-----------|-----------------------------------------|

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Chemical analysis | MgO, SiO <sub>2</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> · On request |
|-------------------|--------------------------------------------------------------------------|

|          |                                 |
|----------|---------------------------------|
| Shipping | Türkiye and abroad, as required |
|----------|---------------------------------|

# Where does magnesite go?

It is the raw material of the refractories every high-temperature industry needs, and of many other industrial products.

**Fe**

Sinter

## Steel and metals

Basic refractories for ladles, converters and arc furnaces

**Ca**

Sinter

## Cement and lime

Heat-resistant linings in rotary kilns

**Si**

Refractory

## Glass and ceramics

Refractory linings for melting furnaces

**N**

Caustic

## Agriculture

Feed additive and fertiliser

**Mg**

Caustic

## Chemicals and pharma

Raw material for magnesium compounds

**C**

Caustic

## Rubber, plastics, paper

Stabiliser and vulcanising additive

**Why strategic?** A plant that cannot get its refractories on time has to stop production. That is why refractory raw materials are of strategic importance to basic industry.

# Respect for the land, value for people



With the water spray system in our pit and covered processing plant we keep dust to a minimum, and we are regarded as an example in site management and occupational health.



## Dust control

Dust is suppressed at source with water sprays in the pit and plant.



## Covered plant

Ore processing is done under cover.



## Safety

Trained teams and protective equipment.



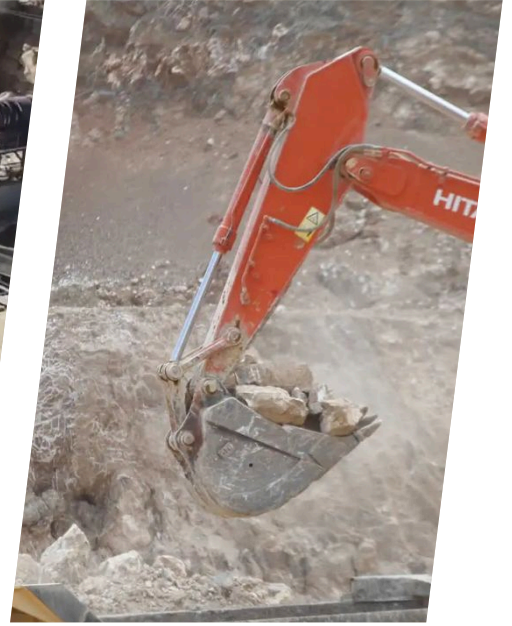
## Local jobs

Work for many people from the region every season.

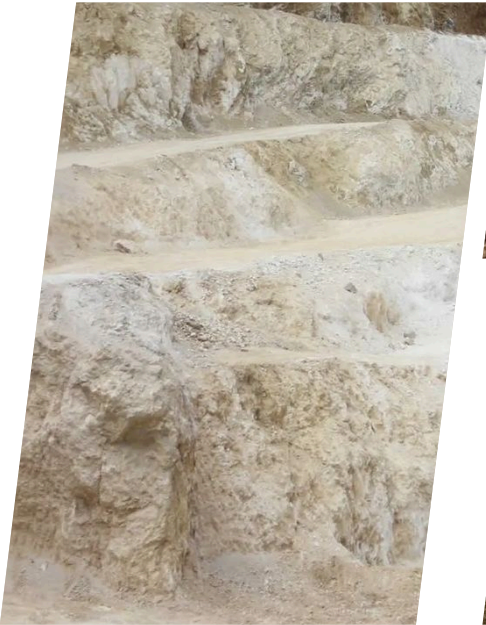
# From the site



Plant



Loading ore



Pit benches



Conveyor line



Haulage fleet

# Write to us for samples, analyses or pricing.

## Head office

Akarbaşı Mah. Atatürk Bulvarı  
Çetin Apt. No: 65/1-2  
Odunpazarı / Eskişehir

## Branch 1 • Ballık site

Satılmışoğlu Mah. 1117. Sok. No: 210  
Tepebaşı / Eskişehir

## Branch 2

Satılmışoğlu Mah. 1117. Sok. No: 197  
Tepebaşı / Eskişehir

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