





## ROTA MINING

Rota Mining is the leading natural zeolite – clinoptilolite mineral producer and exporter in Eurasia. It's been serving its customer all over the world for the last 20 years.

It was founded in 1995 in Turkey.

It started the zeolite mineral business in 1998.

It started producing its own mineral in 2003.



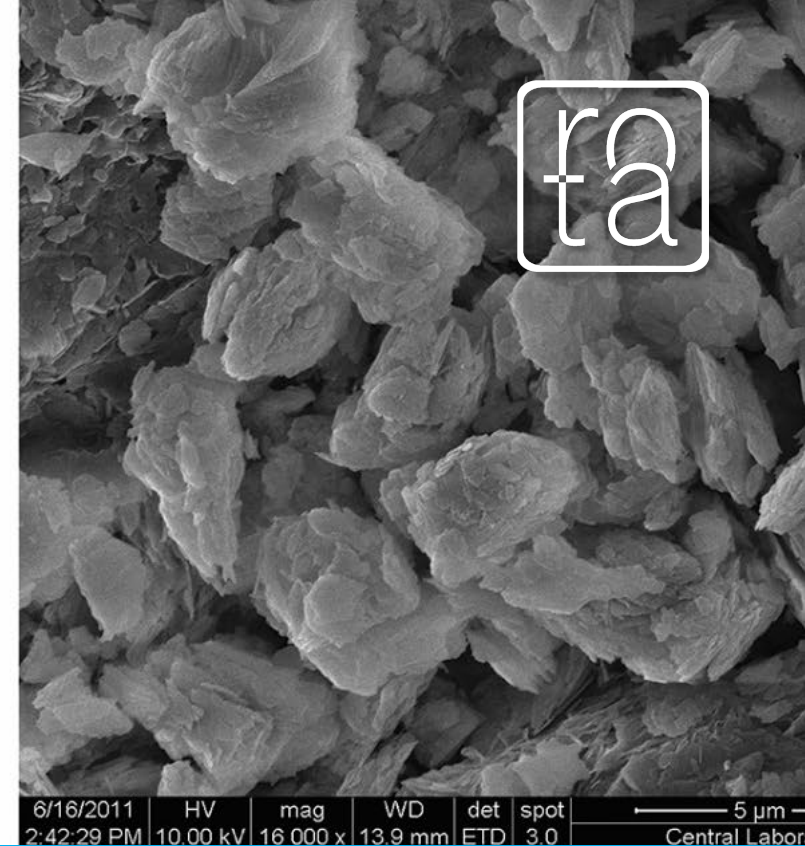
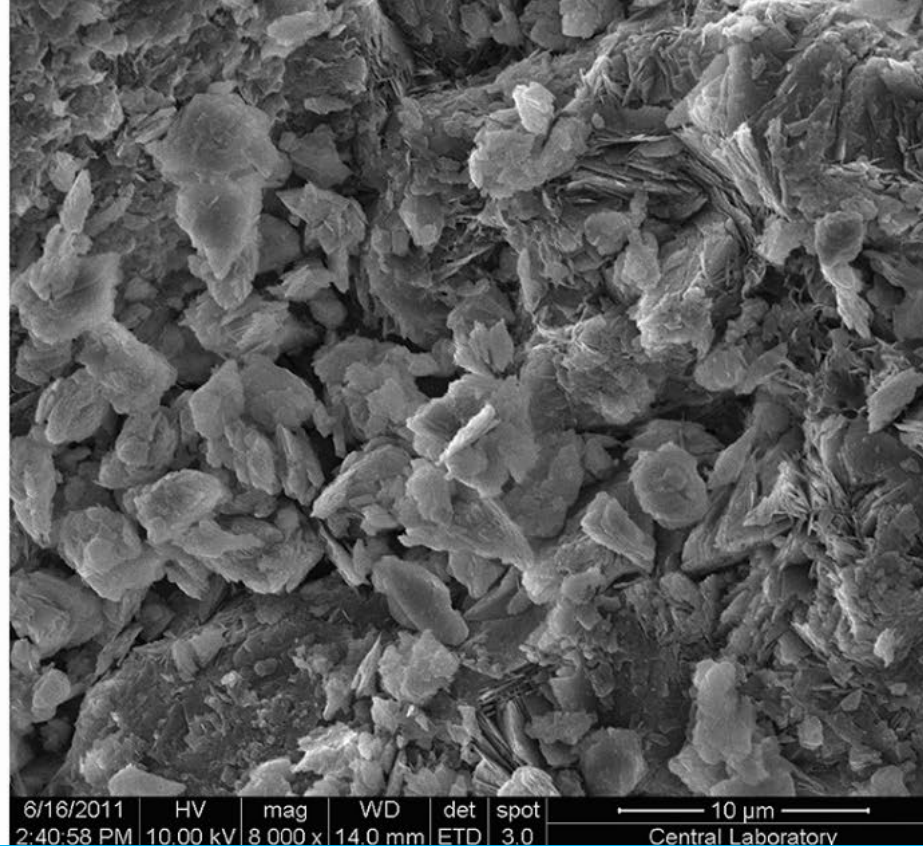
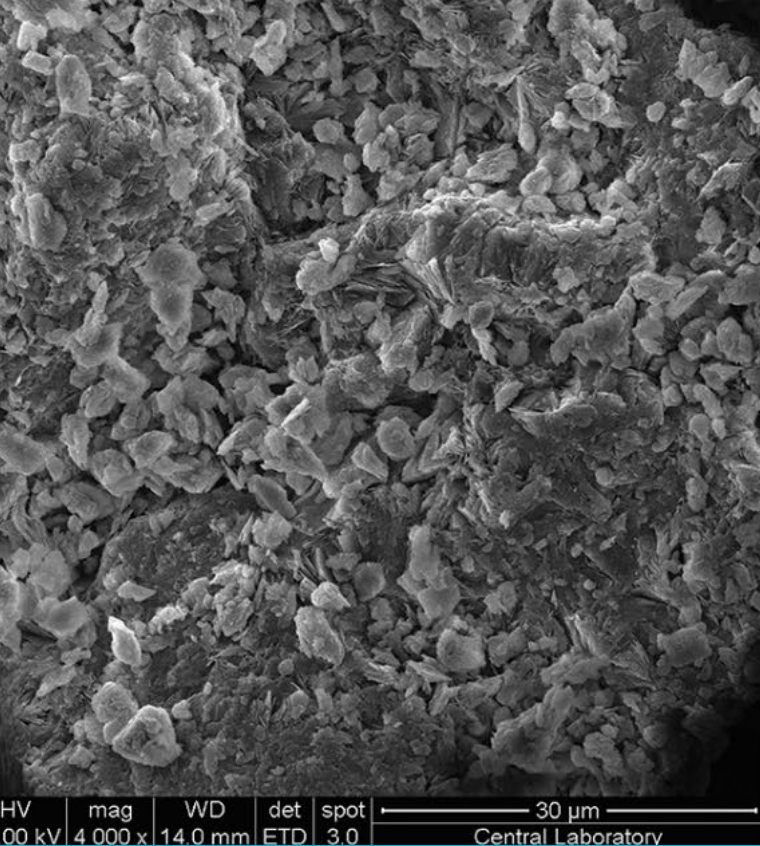
## NATURAL ZEOLITE MINERAL

Zeolite is a crystalline, hydrated aluminosilicate that has an infinite three dimensional structure.

Its highly porous structure (with a porosity reaching 50%) provides an extremely large surface area on which chemical reactions and cation exchanges can take place at a very high degree.

Zeolite has a natural negative ion charge which furnishes it with a tremendously high cation Exchange capacity (CEC).

Thanks to CEC, it adsorbs and binds ammonium, toxins, mycotoxins and heavy metals like Ni, Pb, Hg and Cd, very efficiently and effectively.



## CLINOPTILOLITE

There are more than 40 types of natural zeolite. Clinoptilolite is the most industrialized type of zeolite with opportunities in many applications.

It is safer and has a higher Cation Exchange Capacity and stability compared to other types of zeolite.

It's the only zeolite type that's permitted and registered in EU as a **feed additive**.

Its relatively small size of its pores (4 angström) prevents it from absorbing bigger molecules of enzymes or vitamins.

**T.C. ENERJİ VE TABİİ KAYNAKLAR BAKANLIĞI**  
**MADEN İŞLERİ GENEL MÜDÜRLÜĞÜ**  
**IV. Grup İŞLETME RUHSATI**

**İLİ :** MANİSA  
**İLÇESİ :** GÖRDES

**RUHSAT NUMARASI :** 64381  
**RUHSAT GRUBU :** IV. GRUP (a)  
**YÜRÜRLÜĞE GİRİŞ TARİHİ :** 12.06.2017  
**RUHSATIN BİTİM TARİHİ :** 12.06.2032  
**ERİŞİM NUMARASI :** 2510887  
**RUHSAT ALANI :** 738.05 Hektar  
**RUHSAT SAHİBİ :** ROTA MADENCİLİK TARIM HAY.PAZ.VE NAKİS TİC.A.Ş.  
**T.C. KİMLİK NO :**  
**VERGİ DAİRE VE NO :** Göztepe V.D. 7350159375  
**ADRES :** GÖZTEPETÜTÜNCÜMEHMET EF.C.TEPE AP-AB.KT3 NO: 096 İÇ KAPI NO: 005 KADIKÖY / İSTANBUL

**PAFTALAR :** K20a3,K20b4,K20a2,K20b1

| P.No | S.No | Y      | X       | P.No | S.No | Y | X | P.No | S.No | Y | X | P.No | S.No | Y | X |
|------|------|--------|---------|------|------|---|---|------|------|---|---|------|------|---|---|
| 1    | 1    | 612000 | 4306000 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 2    | 612000 | 4304767 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 3    | 610300 | 4304775 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 4    | 610264 | 4304000 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 5    | 610218 | 4303000 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 6    | 609041 | 4303000 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 7    | 608500 | 4304825 |      |      |   |   |      |      |   |   |      |      |   |   |
| 1    | 8    | 609274 | 4306000 |      |      |   |   |      |      |   |   |      |      |   |   |

ENERJİ VE TABİİ KAYNAKLAR BAKANLIĞI  
Maden İşleri Genel Müdürlüğü  
Uğur Sahin UÇAR  
Genel Müdür Yrd. V.

Ölçek : 1/50000  
Çizim Mühürü Tasarımı ile kullanılmalıdır



## PROSPECTION



After several years of prospecting with the technical assistance of Istanbul Technical University, in 2003, Rota Mining acquired its own high quality reserves in Gördes / Manisa.

Gördes region is world-renowned for the purity of its zeolite - clinoptilolite reservoir.

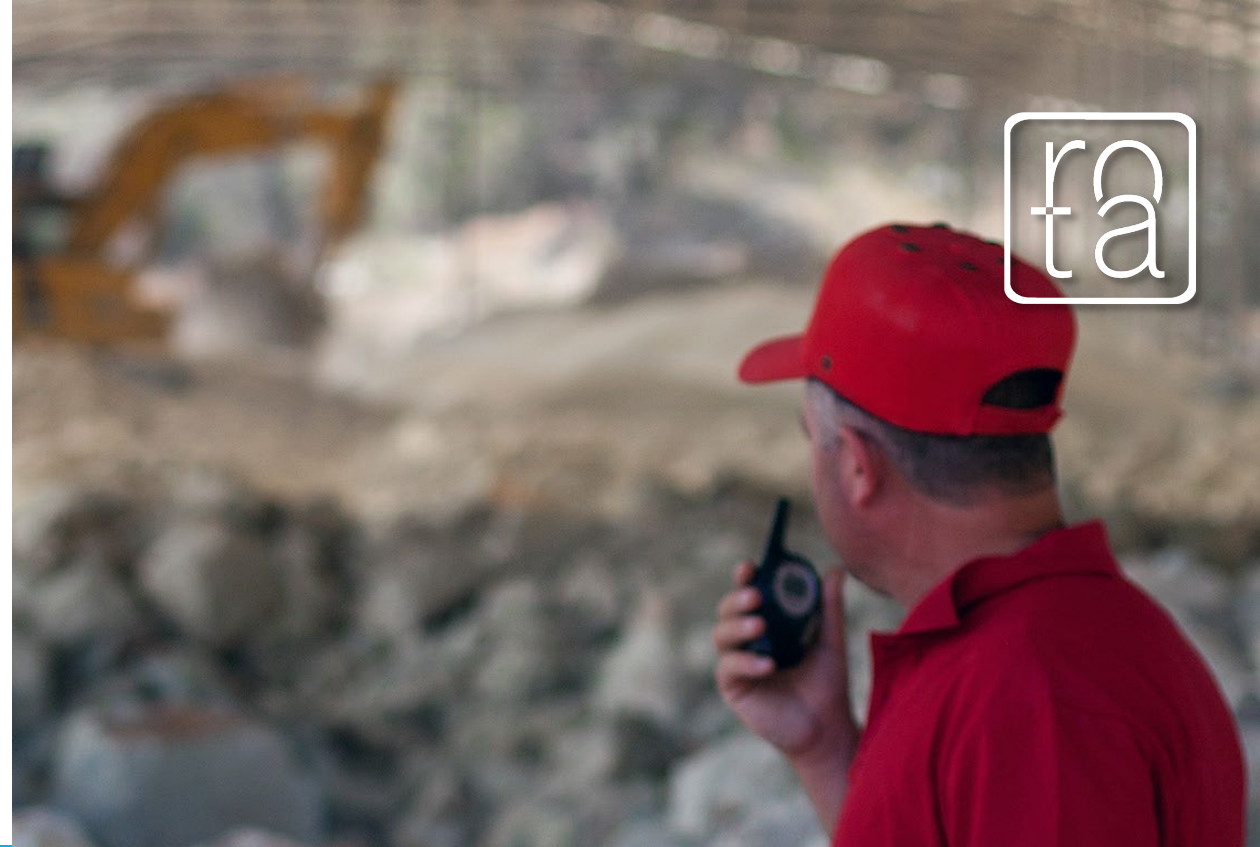
It is the only region in Turkey where zeolite mineral is industrially produced.



## FIRST ESTABLISHMENT

In 2003, Rota established its first zeolite manufacturing facility in Gördes. Since then, it is solely specialized in the production and the marketing of its own natural zeolite - clinoptilolite mineral.

The second production line followed in 2007 to meet the increasing demand. The facility was modernized in 2011. In 2024 a new project started to renew the facility completely.



## GRANULE FACILITY

7 granule and 3 powder products are produced at this facility. The production lines are equipped to carry out the production of 5 different types of order simultaneously. Apart from granule products, pellet products for aquaculture industry is also produced at this facility.

The facility consist of bypass product storage area, two jaw crushers, three hammer crushers, several sieves, separators and silos. Maintenance department is also situated in this facility. Runtime production capacity is 36.600 tons per year at a standard single shift, with 80% efficiency.



## FEED ADDITIVE FACILITY

Feed Additive Facility was built in 2013 to meet the growing demand for feed additive and powder products. Near this facility 1300 m<sup>2</sup> warehouse keeps all packaging materials and raw materials for premix.

The facility can produce 4 different powder and micronized sizes at the same time. Currently the facility carries on its production on four different mills. Runtime production capacity is 9.600 tons per year at a standard single shift, with 80% efficiency.



## RESERVE FACILITY

In 2019, Rota Mining established a third facility at the reservoir site. This new facility is designed to carry the initial crushing and sieving at the mine site and ease the production of other facilities. Coarse products are produced at this facility.

Reserve Facility consists of a raw material storage area, a primary crusher, a screener and 4 silos. The facility is suitable for bulk loading deliveries. Runtime production capacity is 67.200 tons per year at a standard single shift, with 80% efficiency.

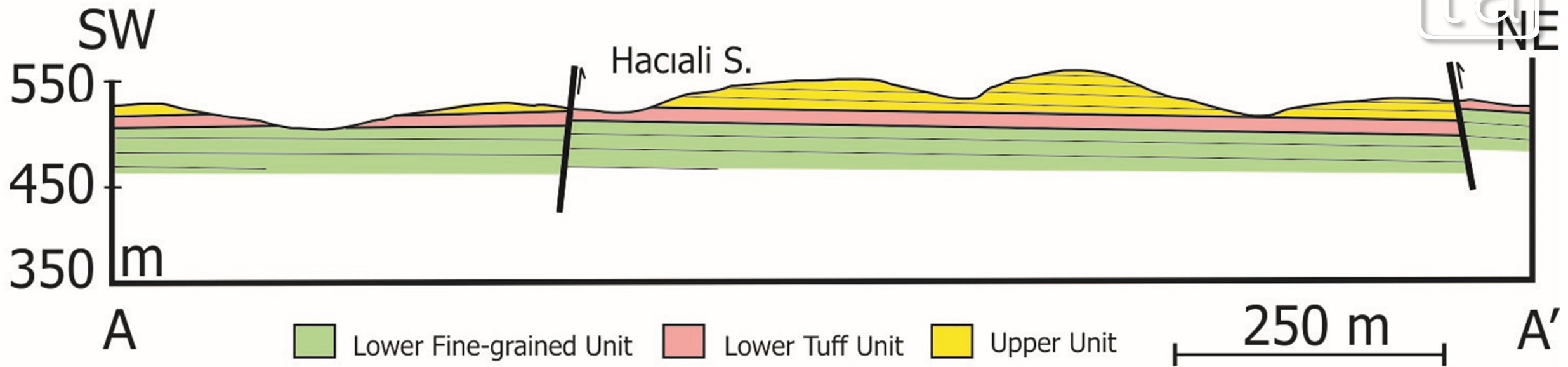


## RESERVE – MINING LICENCES

By 2024, Rota owns 2 mining licenses covering **2.898 hectares** of high quality zeolite reserve. According to the Istanbul Technical University's report, the reserve in this area contains tens of millions of tonnes of zeolite.

According to the same report and many XRD analysis done by many reputed labs in the past 20 years, the purity of the Rota's reservoir ranges between 80 – 95 %, which is one of the highest in the world.

## A-A' Geological Cross-Section

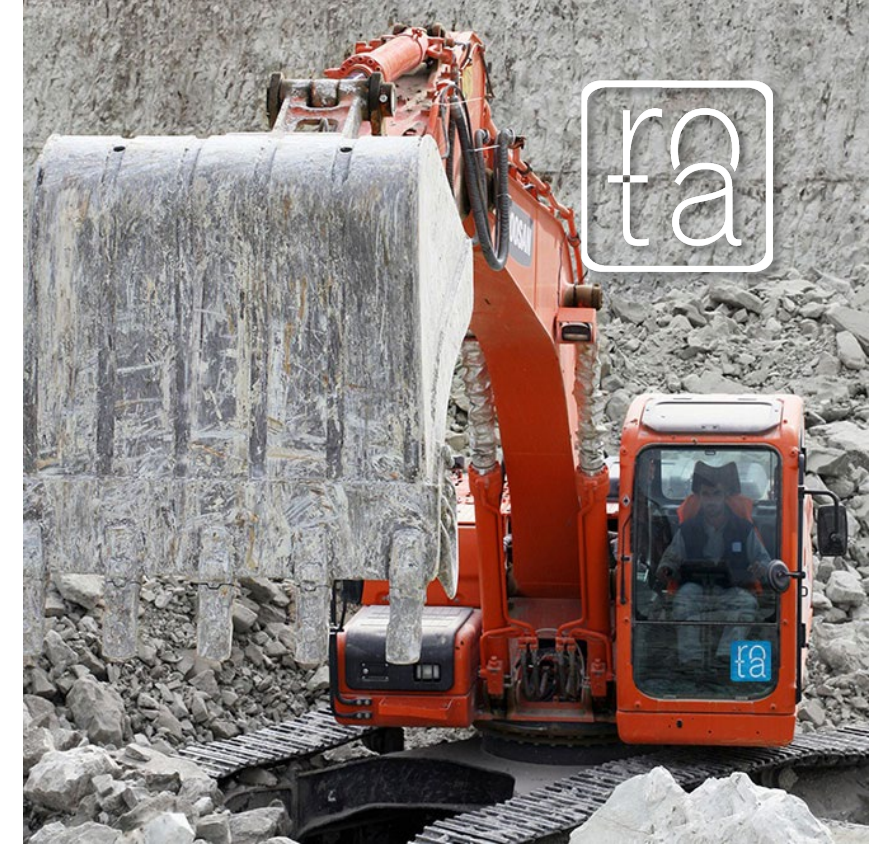


## MINING AREA

Rota currently mines a Zeolitic Lower Tuff Unit with a thickness that ranges between 10 – 30 m. Soil is carefully stripped away before mining, to keep the quality of the ore intact. Extraction is carried out with the company's own excavators without using dynamites.

Rota has renewed its EIA license for this mining area (Mine Pit 2) in 2019. In 2024 it got the EIA license for the Mine Pit 3.

Rota owns permits for 3 different mining pits at the same time.



## ROTA MINING BY THE YEAR 2024

Rota is be able to produce zeolite in 15 different sizes in standard production. Custom sizes are available upon request.

Feed Additive Facility operates 240 kW Solar Power Plant.

Rota employees overall 45 staff in the production and 9 staff in the operation and management.

Mining operations are carried out with 2 excavators, 2 loaders and 4 trucks.



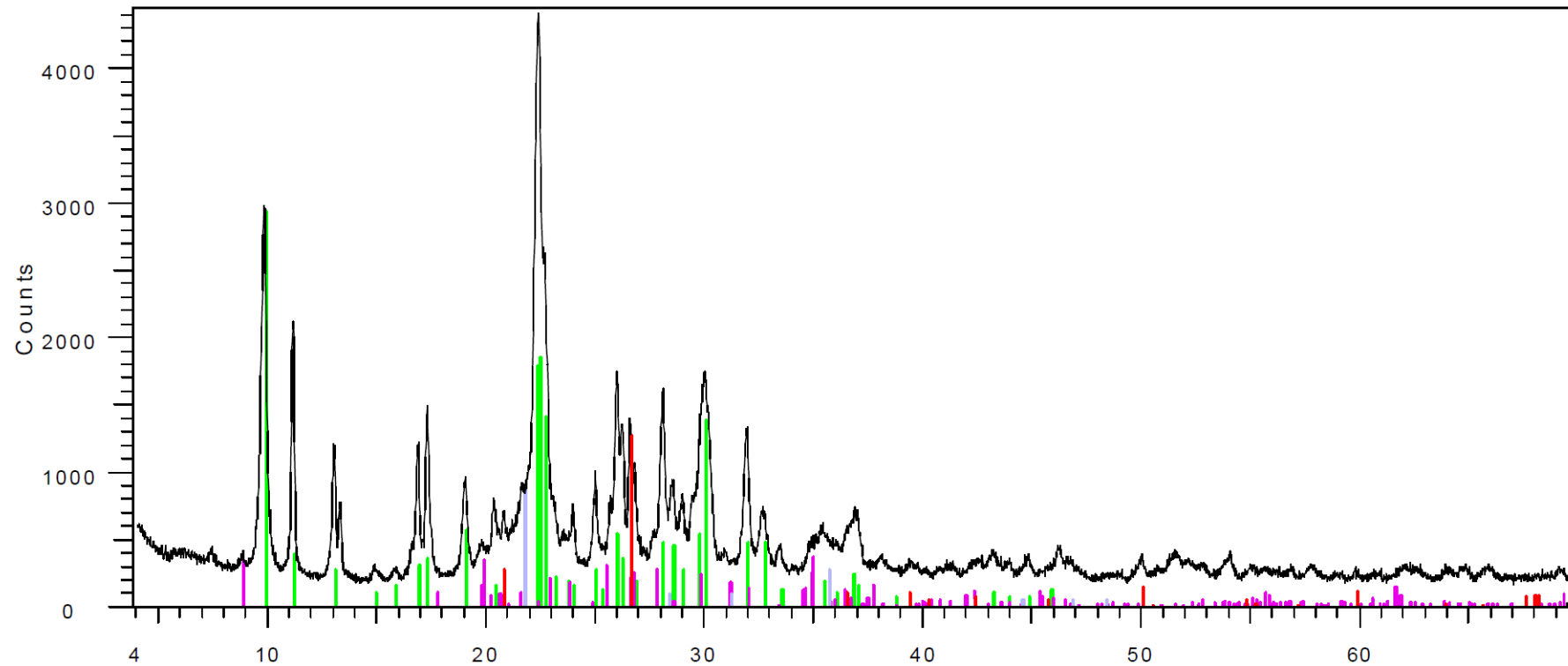
## QUALITY CONTROL AND FEED SAFETY

At Rota Mining's facilities, production is carried under the strict FAMI-QS Quality Control System. FAMI-QS is the Quality and Safety System for Specialty Feed Ingredients and their Mixtures in Europe.

Our facilities are registered in the QS quality scheme database with the number ID: 4953113178402.

In 2013, FAMI-QS and GMP+ signed a Memorandum of Understanding that allows feed business operators to choose freely the feed safety management system that better fits into their operations.

Rota's products are suitable and certified for organic farming.



## RESEARCH AND DEVELOPMENT

Research and Development team developed several different products over the past 10 years; especially for the Feed Additive sector. 3 premix products and 1 complementary feed product are very active in the market.

Currently R&D team is working on developing a Food Additive product based on zeolite.

Rota supports many R&D projects carried out by the universities and private institutions.



## TRADE MARKS

**Rotamin** is Rota's registered feed additive product. Apart from Turkey it is registered in China, Egypt, Pakistan, Yemen and Vietnam.

**Umdemin** is Rota's registered Soil Conditioner product in Turkey.

Rota Mining offers contract manufacturing for its customers with their own trade marks and packages.



# EXPORT

Thanks to its customer-focused service, Rota exports its products to more than 50 countries in the world. Rota's support and mutual trust lead to long term successful partnerships in many countries of the world.

Fast Response, Custom Solutions, On Time Delivery, Smooth Operations and Favorable Pricing are the unchanging policies in Rota Mining and they are the key factors in its ability to serve to so many countries in the world.



## REPUTABLE PRODUCER

After two decades dedicated to the mineral, Rota Mining has now become the most reputable producer at the zeolite market.

Its expertise in the field and the established quality of its service has made Rota the highly qualified manufacturer it is today.



YOUR RELIABLE ZEOLITE PRODUCER