



KARAKAYA



A Piece of Nature.







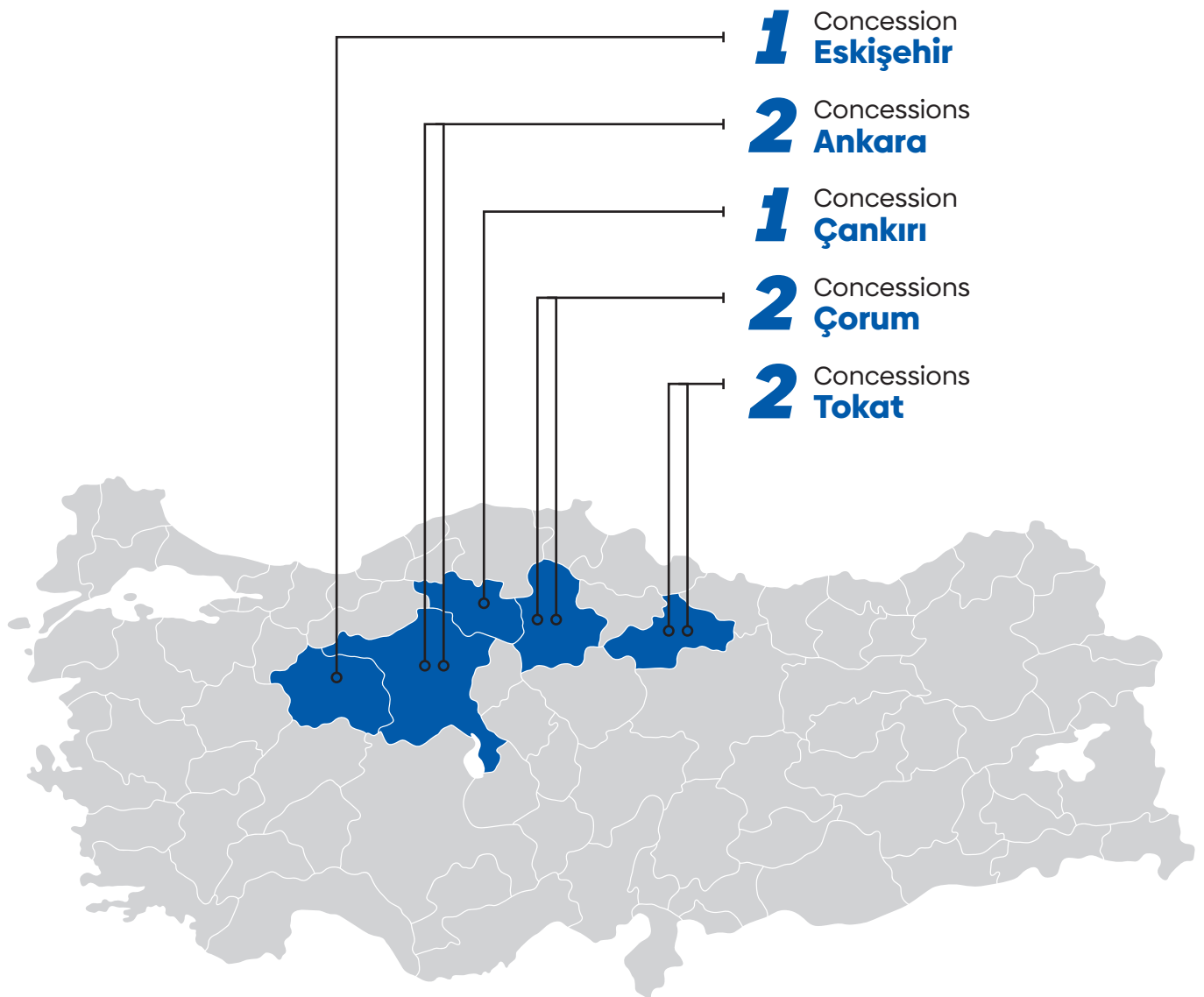
KARAKAYA

Established in 1954, Karakaya Bentonite provides bentonite-based products and solutions for various industries worldwide, including cat litter, drilling, civil engineering, foundry, iron ore pelletizing, cosmetics, energy, geotextile, agriculture, paint, and animal nutrition sectors.

Our high quality bentonite products, extracted from our own reserves located in different regions of Türkiye, are specially produced according to the needs of each industry.

Our expert engineers, working in the R&D laboratory located in our main factory, inspect every stage of the process from the extraction of bentonite ore to product delivery, ensuring the quality of our products. Karakaya Bentonite has recently invested significantly in the cat litter sector and has become one of the major suppliers of Sodium Bentonite in cat litter.







Mines

Karakaya Bentonite, owning the majority of Türkiye's Sodium Bentonite reserves, exhibits unique properties similar to those of US bentonites, characterized by high swelling and excellent absorption values. In recent years, bentonite extraction has been much more focused on cat litter. High absorption, instant clumping and remarkable malodour retention are unique properties that make Karakaya's litter. Due to the increased demand in the cat litter sector, Karakaya has also expanded its mine reserves with different types of clays such as Calcium Bentonite, Diatomite, and Sepiolite.

Our total of 8 mines have a reserve of

6,050,000 *tons of Bentonite,*
4,000,000 *tons of Diatomite.*

The necessary raw material planning is carried out every year in our mines. The company possesses a range of bentonite qualities, each tailored to meet the requirements of different applications. The mining department conducts its own extraction operations, ensuring quality control at every step of the raw material processing.





Production

Our plant is located in Ankara, in a very central location close to the airport. Situated in the heart of Türkiye, the plant's location enables easy export to nearly any port in the country.

In addition to the existing capacity for industrial products, we made our first investment in cat litter in 2017. In 2021, we completed the investment of the second production line. The total production capacity is 100,000 tons, including two lines for industrial bentonite and two for cat litter.

The facility covers a total area of 90,000 m², with 25,000 m² of indoor space including extensive finished product storage facilities to meet our customers' needs.

100,000 *tons/year Production Capacity*

25,000 *m² Closed Area*

90,000 *m² Total Factory Area*



Cat Litter

KAR-CAT

KAR-CAT is a world standard cat litter ensuring cats comfort and their owners ease of use due to its high clumping and high water & odor control. KAR-CAT is a completely natural cat litter product prepared by special bentonite recipe which includes different grades of our different pits and it clumps without any activation requirement due to its sodium based nature.



Foundry Bentonite

KAR-FND

KAR-FND ensures low water levels in working and rapid green sand preparation due to its high thermal strength, optimum swelling & gelling, low loss of ignition and high cation exchange capacity. KAR-FND also ensures low dead clay in return green sand and low bentonite addition due to its high thermal durability and it leads more quality casting. KAR-FND is an economic foundry bentonite friendly to foundry and foundry man due to its optimum green sand compressive and tensile strength.

The standards we produce:

TSE 5360

In addition, we produce special foundry bentonite solutions to foundries with desired green compressive strength, dry compressive strength, swelling, loss of ignition, methylene blue and thermal durability by special bentonite recipes that includes different grade bentonites from our different bentonite pits. Please contact us for project based bentonite productions.



Drilling Bentonite

KAR-DRL

KAR-DRL provides high drilling mud performance even in hard conditions like deep drillings, hot water drillings and problematic formations. KAR-DRL is also an economic product with low consumption and it is friendly to drilling operator and equipment.

The standards we produce:

API 13 A Section 9

API 13 A Section 10

API 13 A Section 11

TS EN ISO 13500 Bölüm 9

TS EN ISO 13500 Bölüm 10

TS EN ISO 13500 Bölüm 11

TS 977 Tip 2

In addition, please contact us for project based bentonite productions with desired viscosity, filtration and yield point.

Industry Specific Products



Civil Engineering Bentonite

KAR-CVL

KAR-CVL is eco-friendly product which ensures long term convenience with cement mixtures due to its steady structure and ensures high performance and low consumption in cut off walls, bore drill applications, TBM operations, injections and civil engineering applications due to its optimum filtration, viscosity, strength and filter cake.

The standards we produce:

API 13 A Section 9

API 13 A Section 10

TS EN ISO13500 Bölüm 9

TS EN ISO13500 Bölüm 10

TS EN 1536

TS EN 1538

In addition, please contact us for project based bentonite productions with desired marsh funnel, viscosity, filtration PH, mud density and filter cake.



Pelletizing Bentonite

KAR-PLT

KAR-PLT is an eco-friendly pelletizing bentonite product which ensures low consumption and strong iron pellets due to its high-water absorption, high binding, fine particle size, high loss of ignition and low moisture specifications.

In addition, we produce special pelletizing bentonite solutions to pelletizing plants with desired enslin, cation exchange capacity (methylene blue), loss of ignition, screen analysis and moisture by special bentonite recipes that includes different grade bentonites from our different bentonite pits. Please contact us for project based pelletizing bentonite productions.



Chemicals

For an economic drilling that has high mud performance even in hard drilling conditions like high temperature, high pressure, deep wells and problematic formations, we supply special mud recipes and drilling mud solutions and relevant chemicals.

Fluid Loss Control Agents:
CMC LV, PAC LV, Starch

Thinners:
Lignosulphonate, Liquid Spread, Thinner

Viscosity Extenders:
XCD Polymer, PAC R, CMC HV

Well Completion Materials:
Quartz, Gyps Bentonite

Lost Circulation Materials:
Aus Plug, Mica, Nut Shell, Super Seal



Our Litter



We produce clumping cat litter made from sodium bentonite, a clay with colloidal properties, high plasticity and self-clumps naturally on contact with water without the need for soda activation. **It's 100% natural, forming strong clumps instantly and providing maximum odor control. It's all-natural, hypoallergenic, and free from chemicals or additives.**

Our scent-free formula is genuinely odorless, effectively eliminating ammonia odors without relying on fragrances as masking agents. Understanding market demands, we also offer slightly scented products, carefully formulated to not overpower the sensitive smelling abilities of cats.

Throughout our production and packaging processes, we employ high-capacity dust filters to minimize dust levels. As a result, our litter is 99.9% dust-free, preventing dust clouds that can cause respiratory issues in both cats and humans.



KARCAT G150



KARCAT G200



KARCAT G400



KARCAT G475

Product	Color	Granulometry	Packaging	Weight
KARCAT G150	Grey	0.50 - 1.50 mm	Big Bag	1,240 kg
KARCAT G200		0.50 - 2.00 mm		
KARCAT G400		0.50 - 4.00 mm		
KARCAT G475		0.60 - 4.75 mm		

Extra Strong Clumps, Low Dust and Natural Odor Control

Unscented

Sandy Unscented is an instant clumping cat litter made of 100% Natural Sodium Bentonite. It offers excellent absorption and natural odor control. It's hypoallergenic and contains no chemicals or additives. Ideal for sensitive cats.

Marseille Soap

Sandy Marseille Soap is the right choice if you are looking for a cat litter which brings a sense of cleanliness in your home. Instant clumping cat litter made of 100% Natural Sodium Bentonite, brings the traditional scent of Savon de Marseille into your home.

Active Carbon

Cat litter made from 100% Natural Sodium Bentonite an excellent odor binder, produces miraculous results when combined with activated carbon. Activated carbon is made from natural coconut shells, provides complete odor control by binding bad odors to itself thanks to the pores on its surface area.

Baby Powder

Instant clumping cat litter made of 100% Natural Sodium Bentonite, gently scented with Baby Powder using natural ingredients. The scent of Baby Powder has a calming and relaxing effect for both humans and cats.

Ocean Breeze

Sandy Ocean Breeze is as good as a sea breeze that sweeps you away to the coast with its scent. Instant clumping cat litter made of 100% Natural Sodium Bentonite, captures the cool sensation of a refreshing sea breeze and brings it to your litter box.



Packaging	: 10 kg Block Bottom
Material	: PET/PE
Units Per Palet	: 100
Units Per Container	: 2,500

Sandy

100% Natural Sodium Bentonite
**Extra Clumping
Cat Litter**



7 DAYS ODOR CONTROL

with Ammonia Stop Technology



TRIPLE ACTION

FIGHTS AGAINST ODORS COMING FROM
URINE + FECES + BACTERIA

Zeolite Particles

Say goodbye to ammonia odors! SandyMax employs zeolite particles to effectively absorb and neutralize ammonia smells, ensuring your home remains free of unwanted odors.

Active Carbon

SandyMax does an extra job infusing active carbon into the formula. This helps fight toxins and maintain a safe and hygienic litter box for your cat.

Fine Granules for High Absorption

SandyMax fine granules are engineered to maximize liquid absorption, ensuring a dry and comfortable environment in the litter box.



Packaging
Material

: **10 kg Box**
: **Carton Box**

SandyMax

Super Premium Cat Litter

100% NATURAL
SODIUM BENTONITE



Natural Clumping Meets Superior Odor Control

Recyclable Packaging

We believe that using eco-friendly packaging is not an option, but a necessity in the operation of our brand. We use recyclable LDPE for our packaging, which is more eco-friendly and sustainable, optimizing greater use of renewable resource materials.

Sensitive

Cat's Grey is made from premium quality 100% Natural Sodium Bentonite. The Sensitive formula is completely odorless and specially formulated for sensitive cats who want a more natural feel. The compact granules absorb urine immediately and trap ammonia inside the clump. Controls bad odors without the need for perfumes or odor maskers. It's hypoallergenic and contains no chemicals or additives.

Vanilla & Tangerine

The calming scent of vanilla will relaxes your little friend, while the breeze from the fresh citrus groves of Tangerine will freshen up the room where your litter box is located. Made from gently scented, premium quality 100% Natural Sodium Bentonite.

Cotton Blossom

Bringing you a fresh spring breeze blowing through a clean cotton field, this special scent will bring a sense of cleanliness to the room where your litter box is located. Made from gently scented, premium quality 100% Natural Sodium Bentonite.



Packaging	: 10 kg Block Bottom
Material	: MDO LDPE/LDPE Recyclable
Units Per Palet	: 100
Units Per Container	: 2,500

CatsGREY

100% Natural Sodium Bentonite Premium Clumping Cat Litter

- + 99.9% Dust Free
- + Extra Strong Clumping
- + Advanced Absorption
- + Gently Perfumed
- + Soft on Paws
- + Respiratory Friendly
- + Hypo Allergenic
- + Long Lasting



www.catsgrey.com



Discover the Power of Natural Clumping

- + Instant Clumping
- + Less Dust
- + Less Tracking
- + Gently Perfumed
- + Environmentally Friendly with Paper Packaging

Unscented

For our little friends sensitive to scents, unscented cat litter provides a fragrance-free option that effectively maintains freshness. Made from 100% Natural Bentonite, it offers superior odor control and clumping ability, ensuring a clean and subtle environment for both you and your cat.

Lavender

The soothing aroma of lavender will create a serene environment for your furry companion, while gently purifying the air around your litter box. Crafted with a delicate lavender fragrance and made from 100% Natural Bentonite, this litter ensures a fresh and calming atmosphere in your home.

Spring Flowers

The delightful scent of spring flowers will enliven your home, bringing a breath of fresh air to the space around your litter box. Made from 100% Natural Bentonite, this litter is infused with the light and uplifting fragrance of blooming spring blossoms, creating a pleasant and refreshing environment for both you and your cat.



Packaging
Material

: 8 kg
: Paper Bag

naturkat

100% Natural Bentonite
Clumping Cat Litter

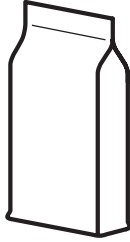




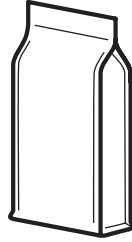
Private Label

Karakaya has developed private labels for some of the largest retailers and wholesalers in the world. We have helped companies successfully launch new store brands by utilizing our private label services.

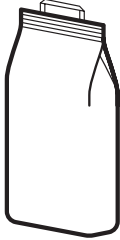
In today's highly competitive retail market, you only get one chance to make a first impression. Karakaya has in-house design capabilities to create products that are in tune with rapidly changing market trends. Our experience with some of the largest retailers in the world demands that we continue to provide products that attract the consumer at first glance.



**Block
Bottom Bag**



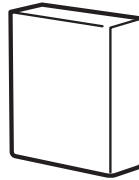
**Quadro
Bag**



**Paper
Bag**



**Pillow
Bag**



**Carton
Box**



Big Bag



Cat Litter Experiments

- MOISTURE
- BULK DENSITY
- CLUMP WEIGHT
- CLUMP STRENGTH

Peletizing Experiments

- MOISTURE
- ENSLIN
- SIEVE ANALYSIS
- LOI LOSS OF IGNITION



R&D

Our R&D lab, where we conduct continuous regular quality controls and offer solutions to our customers from different industries through our specialist engineers, has a wide range of experiments, covers an area of 200 m², and is equipped with state-of-the-art equipment.

Foundry Experiments

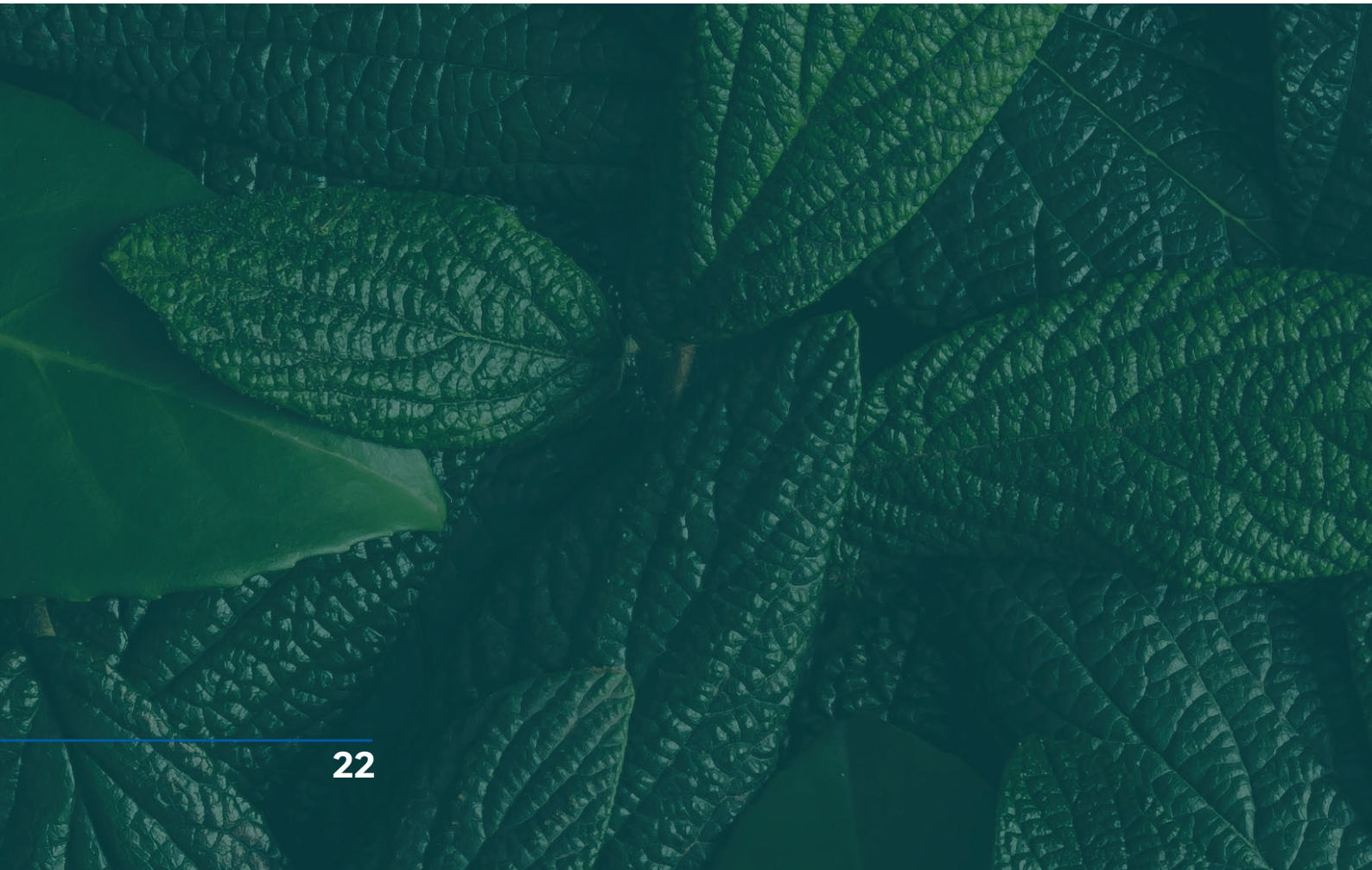
- MBA METHYLENE BLUE ABSORPTION
- GREEN COMPRESSIVE STRENGTH
- DRY COMPRESSIVE STRENGTH
- GREEN SHEAR STRENGTH
- DEGRADATION
- SINTERING
- LOI LOSS OF IGNITION
- MOISTURE
- FREE SWELLING INDEX
- SHATTER INDEX
- GAS PERMEABILITY
- SIEVE ANALYSIS
- PH

Civil Engineering Experiments

- VISCOSITY
- FILTRATION
- SIEVE ANALYSIS
- MOISTURE
- MARSH FUNNEL
- MUD DENSITY
- FILTER CAKE
- LIQUID LIMIT
- GEL FORMATION INDEX
- PH

Drilling Experiments

- VISCOSITY
- FILTRATION
- SIEVE ANALYSIS
- MOISTURE
- MARSH FUNNEL
- MUD DENSITY
- FILTER CAKE
- WET SIEVE ANALYSIS



R+D+I

Every stage of the production process undergoes rigorous auditing to ensure adherence to international standards for quality and innovation. Our products are meticulously analyzed in the bentonite industry's most advanced and well-equipped laboratory, with analyses beginning from quarry production and tailored according to the specific qualities required for their applications. Our experienced R&D team is continually engaged in developing new products, striving to meet the evolving demands of the bentonite industry.

Our quality system is assured by ISO9001-2015 certified by Bureau Veritas.



Environmental Responsibility

Environmental responsibility is our top priority. We are supporting sustainable eco-friendly mining. We don't use explosives for mining, and we use clean energy for our production. We are committed to reducing emissions and waste, using clean energy in our production, and upholding our duty to protect Mother Nature.



Corporate Social Responsibility

A corporate structure that does not ask itself the question **“How can I contribute to the world, society and the environment?”** and does not place this question at the center of its long-term goals is never acceptable. We recognize that every institution, regardless of size, must have a sense of responsibility to the geography and society in which we live. With this in mind, we have focused our responsibility on education. We have built schools and dormitories so that our children, whom we see as the future of our country, can continue their education in better facilities.

- KAYA KARAKAYA ANATOLIA HIGH SCHOOL
- KAYA KARAKAYA SCIENCE HIGH SCHOOL
- KAYA KARAKAYA SPORT HIGH SCHOOL
- KAYA KARAKAYA ELEMENTARY SCHOOL
- KAYA KARAKAYA NURSING AND REHABILITATION CENTER
- YASEMİN KARAKAYA ELEMENTARY SCHOOL
- NAİDE KARAKAYA KINDER GARDEN
- HATİCE KARAKAYA HOSTEL FOR GIRL STUDENTS
- AHMET KARAKAYA HOSTEL FOR BOY STUDENTS
- YASEMİN KARAKAYA SCIENCE AND ART CENTER



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