



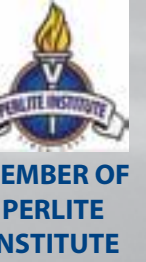
STRONG
OPERATIONAL
PERFORMANCE

INDEX

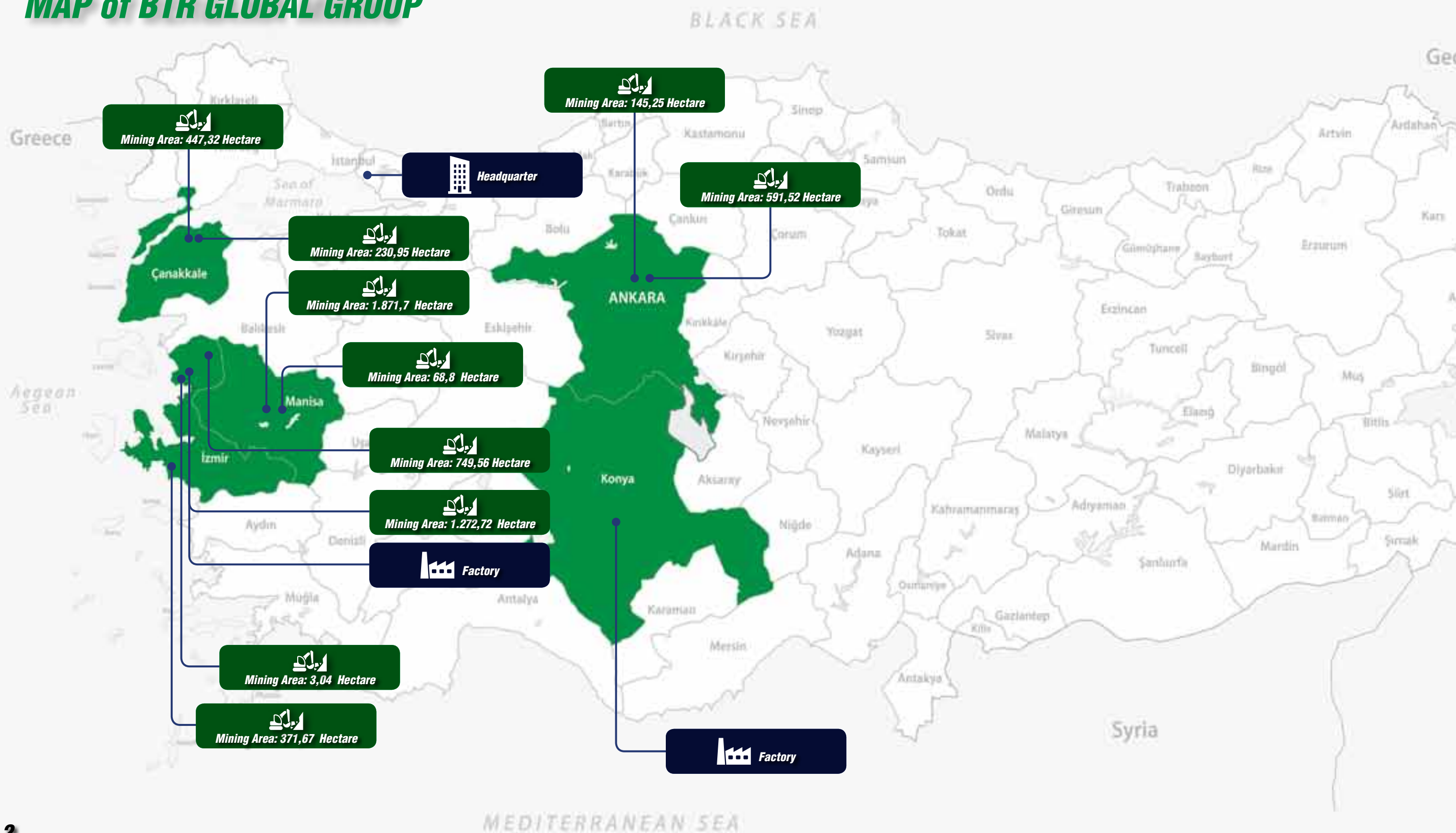
About Bergama Mining	1
Map of Bergama Mining	2
Mining Assets	3
Products	4
Unexpanded TDS	6
Expanded TDS	7
Processing Perlite	8
Logistics	10
Applications of Perlite	12
Contact	

ABOUT BTR GLOBAL GROUP

BTR GLOBAL GROUP Sanayi ve ticaret limited şirketi olarak 2009 yılında profesyonel ekibimizle çalışmalarımıza başladık. O günden bugüne kadar hız kesmeden yenilikçi ve büyüme hedeflerini gerçekleştiren şirketimiz 2014 yılı itibariyle madencilik ve maden makineleri sektöründe ARGE çalışmalarını yapıp maden analizlerini uzman laboratuvar ortamında analizlerini gerçekleştirip kaliteli ve güvenilir ürün yelpazemiz (antimon,kurşun, bakır,çinko,krom,perlit) gibi toprak elementlerinin yatırımları ile gelecek yüzyıla çevreyi koruyarak sağlıklı ve sağlam adımlarla ilerliyoruz. Maden ve maden makineleri alanında kaliteli ekip ve ekipmanlarımızla siz müşterilerimizin memnuniyetine önem veriyoruz.



MAP of BTR GLOBAL GROUP



MINING ASSETS

5.752
Hectare
Quarry Resources

Annual Capacity of
Crushing & Screening
120.000 MT

Annual Capacity of
Expansion Unit
20.000 MT

2 **Processing**
Facilities

PRODUCTS

Perlite is an amorphous volcanic glass. Due to having a relatively high water content, it expands from 2 to 20 times of its initial volume in high temperatures. So that it becomes light with open and closed air spaces. These features set the perlite as a raw material used in many important industrial areas. It has a wide selection of raw perlite ore, crushed - screened raw perlit, expanded and micronised perlite.



Raw perlite ore



*Crushed - Screened
Unexpanded perlite*



Expanded perlite

A photograph of a large industrial machine, likely a concrete pump or similar heavy machinery, with a complex structure of metal beams and components. The machine is situated in a large, open industrial space with a high ceiling and visible structural elements. The machine's design features several large, angled metal plates and beams, suggesting a robust and heavy-duty construction. The overall appearance is that of a well-used, industrial-grade piece of equipment.

- 6 / + 20	- 3.35 / + 0.85	•	
- 20	- 0.85	•	•
TYPICAL CHEMICAL ANALYSIS (%)			
Loss on Ignition (1000 °C)			
SiO ₂			
Al ₂ O ₃			
K ₂ O			
Fe ₂ O ₃			
MgO			
Na ₂ O			
CaO			
TiO ₂			
OTHER INFORMATION			
Shipping Point Shipping Point			
Packaging			
The physical properties of the products represent typical values obtained in accordance with BE a general reference only, are subject to change without notice, and should			

PRODUCT	EP-374	EP-674	EP-126	EP-251	FA-M115	FA-M108	
Description	Pelite, amorphous aluminasilicate						
TYPICAL PHYSICAL PROPERTIES							
Colour	White / off-white	White / off-white	White / off-white	White / off-white	White / off-white	White / off-white	
Appearance	Expanded Bubble	Expanded Bubble	Expanded Bubble	Expanded Bubble	Fine Powder	Fine Powder	
Density, Wet g/l	•	•	•	•	180 - 220	160 - 200	
Density, Bulk g/l	•	•	•	•	100 - 140	80 - 120	
Density, Loose g/l	35 - 55	40 - 70	•	50 -70	•	•	
Density, Compacted g/l	55 - 75	70 - 110	•	70 - 100	•	•	
Permeability	•	•	•	•	2.0 - 3.0 Darcy	3.0 - 4.0 Darcy	
Water Absorption % By Weight	•	•	300 - 700%	300 - 700%	•	•	
Thermal Conductivity at 0°C in W/m.K - 50 g/l	0.035 - 0.038	•	•	•	•	•	
Thermal Conductivity at 0°C in W/m.K - 60 g/l	0.038 - 0.042	•	•	•	•	•	
140 Mesh Screen Analysis, % Retain	•	•	•	•	0 - 20%	0 - 20%	
Floater % Volume	•	•	•	•	20% Max	15% Max	
Retained on 18 Mesh % By Weight	10% Max	•	•	•	•	•	
Retained on 8 Mesh % By Weight	•	0 - 10% Max.	•	•	•	•	
Retained on 5 Mesh % By Weight	•	•	0 - 10% Max	•	•	•	
Retained on 4 Mesh % By Weight	•	•		0 - 10% Max	•	•	
pH	Min. 5.0 Max. 9.0	Min. 5.0 Max. 9.0	Min. 5.0 Max. 9.0	Min. 5.0 Max. 9.0	Min. 5.0 Max. 9.0	Min. 5.0 Max. 9.0	
Free Moisture (as Shipped)(%by weight)	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	
TYPICAL PARTICLE SIZE DISTRIBUTION							
U.S. Mesh	Milimeter	by weight	by weight	by weight	by weight	•	•
+ 20	+ 0.85	0 - 10 %	•	•	•	•	•
- 20 / + 40	- 0.85 / + 0.425	25 - 35 %	•	•	•	•	•
- 40 / + 100	- 0.425 / + 0.15	35 - 45 %	•	•	•	•	•
- 100	- 0.15	20 - 30 %	•	•	•	•	•
+ 14	+ 1.4	•	0 - 5 %	•	•	•	•
- 14 / + 20	- 1.4 / + 0.85	•	10 - 15 %	•	•	•	•
- 20 / + 50	- 0.85 / + 0.3	•	35 - 45 %	•	•	•	•
- 50 / + 100	- 0.3 / + 0.15	•	15 - 20 %	•	•	•	•
- 100 / + 200	- 0.15 / + 0.075	•	5 - 15 %	•	•	•	•
- 200	- 0.075	•	0 - 10 %	•	•	•	•
+ 6	+ 3.35	•	•	0 - 10 %	•	•	•
- 6 / + 10	- 3.35 / + 2.0	•	•	20 - 35 %	•	•	•
- 10 / + 20	- 2.0 / + 0.85	•	•	55 - 65 %	•	•	•
- 20	- 0.85	•	•	0 - 15 %	•	•	•
+ 4	+ 4.75	•	•	•	0 - 10 %	•	•
- 4 / + 6	- 4.75 / + 3.35	•	•	•	15 - 25 %	•	•
- 6 / + 20	- 3.35 / + 0.85	•	•	•	55 - 85 %	•	•
- 20	- 0.85	•	•	•	0 - 10 %	•	•
TYPICAL CHEMICAL ANALYSIS (%)							
Loss on Ignition (1000 °C)	< 1.0						
SiO ₂	71.7						
Al ₂ O ₂	18.0						
K ₂ O	5.4						
Fe ₂ O ₂	1.4						
MgO	1.4						
Na ₂ O	1.0						
CaO	1.0						
TiO ₂	0.1						
OTHER INFORMATION							
Shipping Point Shipping Point	Aliağa						
Packaging	150 L Poly - 200 L Poly - Bigbags						
The physical properties of the products represent typical values obtained in accordance with BERGAMA MINING's test methods and are subject to manufacturing variations. They are provided here as a general reference only, are subject to change without notice, and should not be relied on for any particular application. No guarantee is given or intended.							

PROCESSING PERLITE

Perlite is a mineral which starts gradually from the right under the layer of the soil on the ground to the deep due to the natural formation. Therefore the perlite is extracted from the ground using overground/ open pit mining methods. Raw perlite ore is loaded onto the trucks and sent to the factories for processing.

Crushing & Screening

Raw perlite ore is passed through a crushing and screening process and classified according to the particle size using different type of breakers, dryers and sieves as free from the moisture. Bergama Mining has an annual 120,000 tons of raw crushed and screened perlite.

Expansion

Classified raw perlite is expanded after selected according to the purpose and use in the industry. Expanded perlite is used as a raw material in different industries. Bergama Madencilik supplies the expanded perlite all over Turkey with its expanding facilities in Bergama/Izmir and Konya.



Konya Factory



Izmir / Bergama Factory

LOGISTICS

Btr Global arranges its 20' and 40' container loadings from Nemport and TCEEGE Terminals located in Aliğa / Nemrut Bay and İzmir Alsancak Port. Çandarlı Port will also be used for loadings when it starts operating very soon.

The Port of Aliğa and İzmir handles all types of cargo and it is well connected with Turkey's rail and highway networks. They are frequent call port for MSC, SAFMARINE, MAERSK, UASC, CMA CGM, HAPAG LLOYD, YANGMING, HANJIN, TARROS, COSCO, TURKON Lines.

Btr Global loads the shipments into 20' containers and 40' containers; 25 kg bags, 50 kgs bags and 1250 kgs big bags. The pallet facilitates a smooth discharging of the bags and big bags. The loadings are operated under the attendance of our experienced employees who work with a great care to ensure a smooth loading of the cargo and prevent any damage to occur.



Port of Aliğa İzmir



APPLICATIONS of PERLITE

As the chart on the page indicates, there are many uses for perlite. These uses can be broken down into three general categories;

- Construction Applications
- Horti-cultural Applications
- Industrial Applications.

Because of perlite's outstanding insulation, light weight, fire retardant and sound control characteristics and its being rot, vermin and termite resistant perlite is widely used in the construction applications. Essentially perlite is used in the horticultural industry because it provide aeration and drainage, it can retain and hold substantial amounts of water and later release it as needed, it is sterile and free from diseases, it has a fairly neutral pH and it is readily available, non-toxic, safe to use, and relatively inexpensive. It is used in high temperature applications in the steel and foundry industries such as ladle topping, hot topping and risering, in topping compounds, in exothermic and insulating shapes, as a cushioning agent, in molding sand and in the manufacture of refractory blocks and bricks.

EXPANDED PERLITE

***Ambient & Low Temperature Insulation
High Temperature Insulation***

Medium to High Temperature Insulation

Oil Well Treatments

Fireproofing

Acoustic

Horticulture

Lightweight Aggregate Construction

Air Filtration

Liquid Filtration

Agricultural Additive / Supplement

Absorption

Fillers

***Abrasive
Cryogenics***



BTR GLOBAL GROUP

Head Office

Cumhuriyet. Mah. 774 Sok. No:3 Dükkan Merkez Yüreğir Adana / Türkiye
Telephone: 0 532 475 71 27 Telephone 2: +90 533 252 53 23 Telephone 3: +90 532 475 71 27

info@btrglobalgroup.com