

# STRONG OPERATIONAL PERFORMANCE

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## 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

#### BLACK SEA

## MINING ASSETS



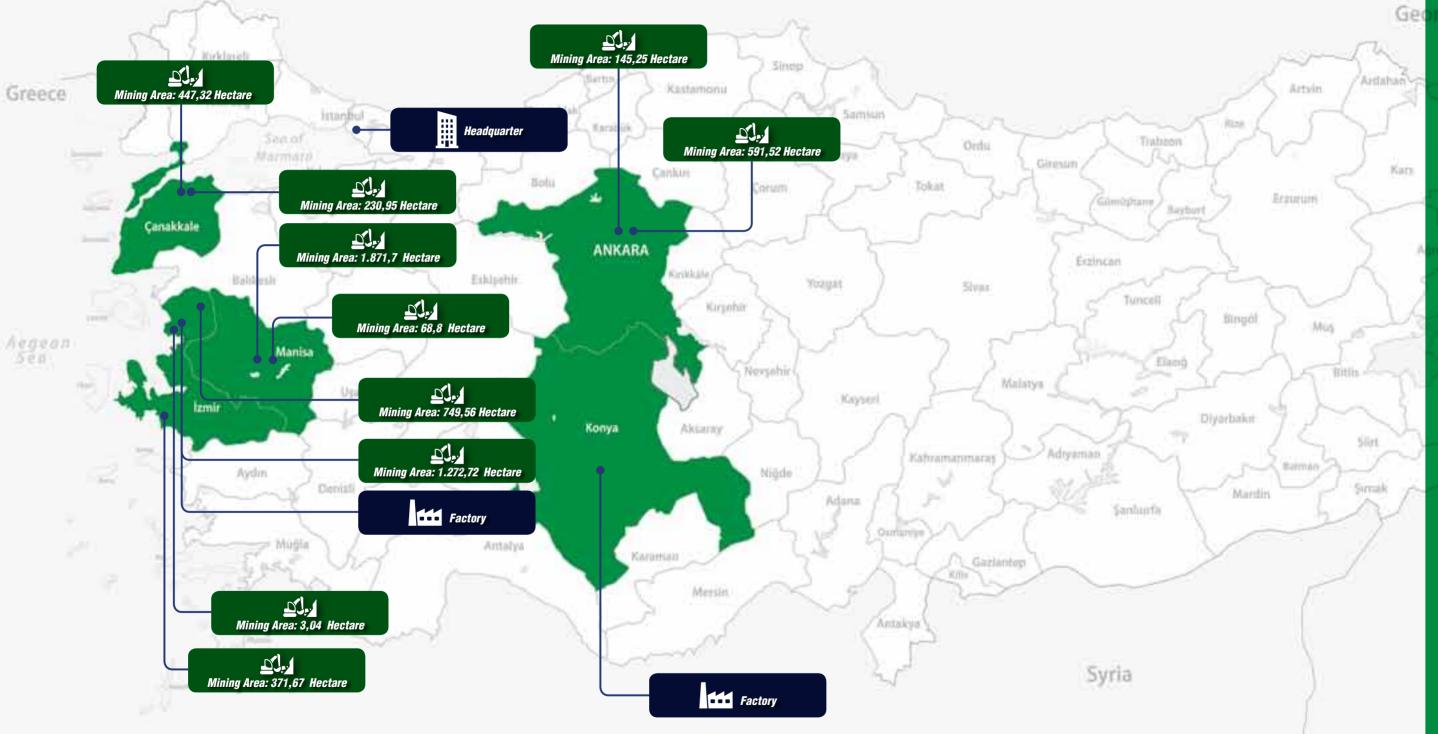
Annual Capacity of Crushing & Screening

120.000 MT

Annual Capacity of Expansion Unit

20.000 MT

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.



## UNEXPANDED PERLITE ORE TECHNICAL DATA SHEET

PRODUCT		CG374	FG674	FDG603	FDG126	FDG258	FDG251		
Description		ESTABLISHED	Perlite, amorpho	ous aluminasilicate					
TYPICAL PHYSICAL PROPER	TIES								
Particle Size (mm)		0.074 - 0.3	0.074 - 0.6	0.3 - 0.6	0.6 - 1.2	0.85 - 2.5	1.0 - 2,5		
Loose Weight (g/litre)		LONG 100			1100/1300	1100/1300	1100/1300		
Free Moisture (as Shipped	I)(%by weight)	1% max	1% max	1 % max.	1 % max.	1 % max.	1 % max.		
pH (10% slurry)		6.0	6.0	6.0	6.0	6.0	6.0		
Colour		grey / pink	grey / pink	grey / pink	grey / pink	grey / pink	grey / pink		
Stowage Factor (t / m³)	THE ROLL OF THE	1.1 - 1.3	1.1 - 1.3		0911		The same		
TYPICAL PARTICLE SIZE DIS	TRIBUTION								
U.S. Mesh	Milimeter	by weight	by weight	by weight	by weight	by weight	by weight		
+ 50	+ 0.3	0 - 15 % max.							
- 50 / + 200	- 0.3 / + 0.074	75 - 100 %	-		100 TO 100 100				
- 200	- 0.074	0 - 10 % max.	:35	ACCOUNT OF		MI Property	1000 C		
- 30 / + 200	- 0.6 / + 0.074	Paul .	0 - 8 % max.		36000 · 5500	12.00			
+ 30	+ 0.6		87 - 100 %	0 - 10 % max.	3257	- 36 · ·	1230		
- 30 / + 50	- 0.6 / + 0.3		0 - 5 % max.	75 - 100 %	The same				
- 50	- 0.3	9 5 5 9 6 5 TO	- 40.5	0 - 15 % max.	10000				
+ 16	+ 1.2	2011.555		1000	0 - 30 % max.	Parist Charles	100		
-16 / + 30	- 1.2 / + 0.6	•	•	The Control	60 - 100 %	2000			
- 30	- 0.60			C. S. S. C. C. C.	0 - 10 % max.		•		
- 20	- 0.85		The state of the s	36.00	100	0 - 8 % max.			
- 8 / + 20	- 2.5 / + 0.85	STATE OF THE STATE	The same	-		42 - 100 %	•		
+ 8	+ 2.5	0 000 000		10.00	-1.	0 - 50 % max.	0 - 60 % max		
- 8 / +18	- 2.5 / + 1.0		200 · 100	The same		<b>阿克尔德</b>	35 - 100 %		
- 18	- 1.0		-	100 m	STATE PAGE		0 - 5 % max.		
TYPICAL CHEMICAL ANALYS	<u>, , ,                                </u>								
Loss on Ignition (1000 °C)	Car March Lotte				1.0	1			
SiO <sub>2</sub>	THE PLEASE STATE	71.7							
Al <sub>2</sub> O <sub>2</sub>	Contract to the said	18.0							
K <sub>2</sub> O	TO COMPANY	5.4							
Fe <sub>2</sub> O <sub>2</sub>		The second second	1.4						
MgO	ASSESSED FAMILY	The second second			1.4				
Na <sub>2</sub> O	1.0								
			1.0						
CaO	15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	8 3 E 4 3 2 1 2 3		C The same of	.0	211111	and the same		

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.





### XPANDED PERLITE ORE TECHNICAL DATA SHEET

EXPANL	JEV PEKLIT	E UKE IEL	MNIGAL	UAIA SI	IEE I		Second Property		
PRODUCT		EP-374	EP-674	EP-126	EP-251	FA-M115	FA-M108		
Description		1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	PARTIE STATE	Perlite, amorphou	s aluminasilicate	District of the second	-12 5		
TYPICAL PHYSICAL PR	OPERTIES								
Colour		White / off-white	White / off-white	White / off-white	White / off-white	White / off-white	White / off-white		
Appearance	A TO THE REAL PROPERTY.	Expanded Bubble	Expanded Bubble	Expanded Bubble	Expanded Bubble	Fine Powder	Fine Powder		
Density, Wet g/l		S - 15 . 15		Service .	-43-642	180 - 220	160 - 200		
Density, Bulk g/l		3 3 3 5				100 - 140	80 - 120		
Density, Loose g/l	A STATE OF THE PARTY OF THE PAR	35 - 55	40 - 70	Children Control	50 -70	· 200			
Density, Compacted	g/l	55 - 75	70 - 110		70 - 100	Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
Permeability			200	STATE OF THE STATE		2.0 - 3.0 Darcy	3.0 - 4.0 Darcy		
Water Absorption % E	, ,		13573 (188)	300 - 700%	300 - 700%	3000 C	• 1173		
Thermal Conductivity	at 0°C in W/m.K - 50 g/l	0.035 - 0.038			(C) 13 17 17 18		• 23		
	at 0°C in W/m.K - 60 g/l	0.038 - 0.042	. 1979	STATE OF THE STATE	E 3. 1 1 1 1 1 1	C			
140 Mesh Screen Ana	alysis, % Retain				Company of the same	0 - 20%	0 - 20%		
Floater % Volume	Color Standards	SET IN THE REAL PROPERTY.			100	20% Max	15% Max		
Retained on 18 Mesh	% By Weight	10% Max	The same of the sa	and the same	0.95	Ser SERVERY	A STATE OF THE STA		
Retained on 8 Mesh of	% By Weight	THE STREET	0 - 10% Max.	2000年					
Retained on 5 Mesh of	% By Weight		ST 10 100	0 - 10% Max	STORE STORES				
Retained on 4 Mesh of	% By Weight	SELECTION OF THE			0 - 10% Max	State of the state			
pH	Miles Taylor	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 Shi	ipped)(%by weight)	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%		
TYPICAL PARTICLE SIZ	'E DISTRIBUTION								
U.S. Mesh	Milimeter	by weight	by weight	by weight	by weight	•	•		
+ 20	+ 0.85	0 - 10 %	10000	ALCOHOL: THE	Carried Act	5500			
- 20 / + 40	- 0.85 / + 0.425	25 - 35 %	2. 2. S. S. S. S.	-	Sand Control	The Bleet			
- 40 / + 100	- 0.425 / + 0.15	35 - 45 %	CENT - MERCH	TAIL		Electric States	The same of		
- 100	- 0.15	20 - 30 %	White Total	Charles Control	- ALIEN AND AND AND AND AND AND AND AND AND AN	Charge 15	NATURE DISE		
+ 14	+ 1.4	15 12 15 15 15 15 15 15 15 15 15 15 15 15 15	0 - 5 %	(6) P. TREET	Carried States	536.000			
- 14 / + 20	- 1.4 / + 0.85	No. of Concession, Name of Street, or other Party of Street, or other	10 - 15 %	A Charles A	100 10 10 10 10 10 10 10 10 10 10 10 10	Second Second	72.50		
- 20 / + 50	- 0.85 / + 0.3	Braulist Francis	35 - 45 %	COLOR DE SECURITOR	a Toronto De la Contraction	Section 1	100000		
- 50 / + 100	- 0.3 / + 0.15	THE PERSON NAMED IN	15 - 20 %	CONTROL MON		The same of the same	Part Contract		
- 100 / + 200	- 0.15 / + 0.075	A PARTY OF THE PAR	5 - 15 %	CONTRACTOR	Marie Control	800 S. 50 C. 34	20 Sept 10 10 10		
- 200	- 0.075	ACCUSED NO.	0 - 10 %	2010-00-	SELECTION.	N280.015			
+ 6	+ 3.35	50 7 13 C SW	MAN THE WAY	0 - 10 %	THE OWNER OF	2000	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
-6/+10	- 3.35 / + 2.0	C. 13 (1)	1,7735 430000	20 - 35 %	95. 12. 31 Mala	SECTION STATE	235 - 1650		
- 10 / + 20	- 2.0 / + 0.85	AL ATTEMPT OF THE	100 F 20 100	55 - 65 %	2000 2000	1000	300,300,000		
- 20	- 0.85	C. C	35711236	0 - 15 %		Company of the last	The state of the s		
+ 4	+ 4.75	The Control of the Control	W # 36 . 5 . 25 . 5	N 199 K 3033	0 - 10 %	1200 Miles	ENGS CORE		
-4/+6	- 4.75 / + 3.35	In and the	2.34.0 V	AC. 14. THE	15 - 25 %	S. 70 Carl	303.128		
-6/+20	- 3.35 / + 0.85	100000	- 1. S. 1. 1. S. 1. 1	Sales Charles	55 - 85 %	45.56.265	100 C		
- 20	- 0.85	C. C	23 P 1/ Opt 15 to	BE STEELEN	0 - 10 %	13-19 30 TO	25.20.000		
TYPICAL CHEMICAL AN	IALYSIS (%)								
Loss on Ignition (1000		CONTRACTOR OF THE PARTY OF THE	STATE OF THE PERSON	< 1	0	DANSED TO BEST OF	CLOTHAN PROPERTY.		
SiO	A SOURCE DAIRY	DISTRIBUTED OF THE PARTY OF THE		71.7					
Al <sub>2</sub> O <sub>2</sub>	And The State of t	THE REAL PROPERTY.	18.0						
K <sub>2</sub> O <sub>2</sub>				5.4					
Fe <sub>2</sub> O <sub>2</sub>		THE RESERVE OF THE PERSON NAMED IN	1.4						
MgO		The second second		1.4		STATE OF THE PARTY			
Na <sub>2</sub> O		No all the latest the	1.0						
CaO		The Property of the Park	1.0						
TiO		270000000000000000000000000000000000000		0.		ALC ALCOHOLD	1 (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2		
OTHER INFORMATION				0.					
	ing Point	THE RESERVE CONTRACTOR		l Alia	i ňa	STATE OF THE PARTY			
Shipping Point Shipping Point Packaging		- N. S. S. S. S. S.	THE RESERVE			CONTRACTOR OF	1100000		
			150 L Poly - 200 L Poly - Bigbags						

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## 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.



### **LOGISTICS**

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

The Port of Aliağa 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 shipmentsinto 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.



## 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 inexpensivezIt 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.







#### **Head Office**

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