

# Vermiculite Data Sheet

## *Bulgaria*



**Data, Facts and Information**

# Vermiculite Sample of Applications

Environment Protection



Plestar & Mortar Industry



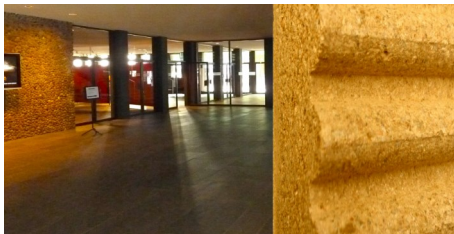
Dry Construction



Plant & Furnace Construction



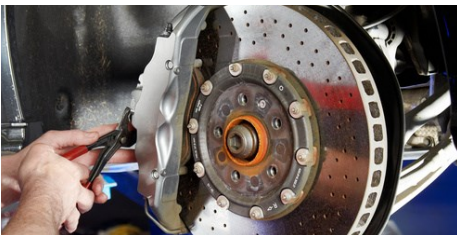
Fire Prevention & Acoustics



Transport & Packaging



Automotive



Steel Production



Orthopedics & Modeling



Glass Production



Cattle Breeding & Agriculture



Crop Production & Gardening

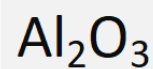


## Chemical and Physikalical Properties

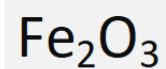
- pH-Number ca. Ph-Wert ca. 7-9
- Sinter Temperature ca. 1.260 °C
- Melting Point ca. 1.300 - 1.430 °C
- No Silicone, Industrial Hygiene
- Fire Protection Classification A1
- Thermal Conductivity 0,07 W/mK
- Bulk Density 100 -125 g/Ltr (DIN 1060)
- Bulkhead Value 650 - 900 ml/100 gr



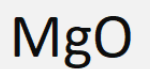
ca. 41%



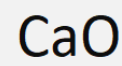
ca. 11%



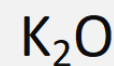
ca. 11%



ca. 24%



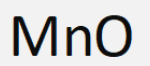
ca. 3%



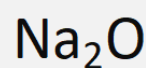
ca. 0.77%



ca. 0.94%



ca. 0.12%



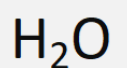
ca. 0.05%



ca. 0.4%



ca. 0.3%



ca. 13%

# Product Description

## Crude Vermiculite BG

Typ: Crude Dregs - 0.30 mm ultra fine

Dimension	Quota	Fokus
Dregs	40 - 70 %	<b>90%</b>
0.18 mm	30 - 50 %	
0.30 mm	0 - 10 %	



### Delivery Form & Bulk Weight

- Colour: goldbrown - silverwhite
- Particle Size: Dregs-0,30 mm
- Bulk Density: 1.000-1.200 kg/m<sup>3</sup>
- Packed in Big Bag 1,2 to
- Focus: minimum 80 % weight within particle size

Typ: Crude 0.25 - 0.43 mm micron

Dimension	Quota	Fokus
Dregs	0 - 5 %	<b>90%</b>
0.18 mm	0 - 8 %	
0.25 mm	25 - 50 %	
0.32 mm	25 - 40 %	
0.43 mm	10 - 40 %	
0.71 mm	0 - 5 %	



### Delivery Form & Bulk Weight

- Colour: goldbrown - silverwhite
- Particle Size: 0,25-0,43 mm
- Bulk Density: 1.000-1.200 kg/m<sup>3</sup>
- Packed in Big Bag 1,2 to
- Focus: minimum 80 % weight within particle size

Typ: Crude 0.43 - 1.00 mm superfine

Dimension	Quota	Fokus
Dregs	0 - 1 %	<b>90%</b>
0.25 mm	0 - 5 %	
0.32 mm	0 - 5 %	
0.43 mm	5 - 25 %	
0.50 mm	40 - 55 %	
0.71 mm	20 - 40 %	
1.00 mm	5 - 12 %	
1.40 mm	0 - 5 %	



### Delivery Form & Bulk Weight

- Colour: goldbrown - silverwhite
- Particle Size: 0,43-1,00 mm
- Bulk Density: 1.000-1.200 kg/m<sup>3</sup>
- Packed in Big Bag 1,2 to
- Focus: minimum 90 % weight within particle size

## Exfoliated Vermiculite BG

Vermiculite is made from aluminum-iron-magnesium silicate, which expands to many times its original volume when exposed to a very high temperature in a shock-like manner. Vermiculite is sterile, free of bacteria and germs.

Mischung 0 - 0,5 mm micron

Dimension	Quota	Fokus
Boder > mm	1 - 5 %	<b>90%</b>
0.25 bis 0.50 mm	10 - 25 %	
0.50 bis 1.00 mm	65 - 85 %	
1.00 bis 2.00 mm	0 - 5 %	



### Delivery Form & Bulk Weight

- Weight approx. 100 -110 kg/m<sup>3</sup>
- Packed in 100 litre sacks à 10 kg à 27 sack/palett, in a big bag or as a silo



Mischung	1 - 2 mm		superfine		
Dimension			Quota		Fokus
Boden		mm	0 - 5 %		
0.25 bis	0.50	mm	1 < 10 %		
0.50 bis	1.00	mm	30 - 50 %		90%
1.00 bis	2.00	mm	35 - 60 %		
2.00 bis	3.15	mm	0 - 5 %		



#### Delivery Form & Bulk Weight

- Weight approx. 100 -110 kg/m<sup>3</sup>
- Packed in 100 litre sacks à 10 kg à 27 sack/palett, in a big bag or as a silo

## The Ultralight Vermiculite of Environmentally Friendly Mineral Granules

Vermiculite is a natural mica mineral and has extraordinary properties due to its crystalline structure. The material is heated shockingly at well above 1000 ° C (exfoliation process) in our plants. The platelet-like minerals expand like an accordion, thanks to this industrial refinement, and incorporate millions of tiny air cells into their lamellas. Under the microscope, the worm-like deformation can be seen, which has given name to the natural product which is free of additives (vermis = lat. Worm). The result is a unique porosity of up to 90%. Vermiculite is sterile, free of bacteria and germs.



Crude



Exfoliated