

Vein Graphite

A special type of graphite

PURITY.
PERFORMANCE.
PASSION.

Vein Graphite

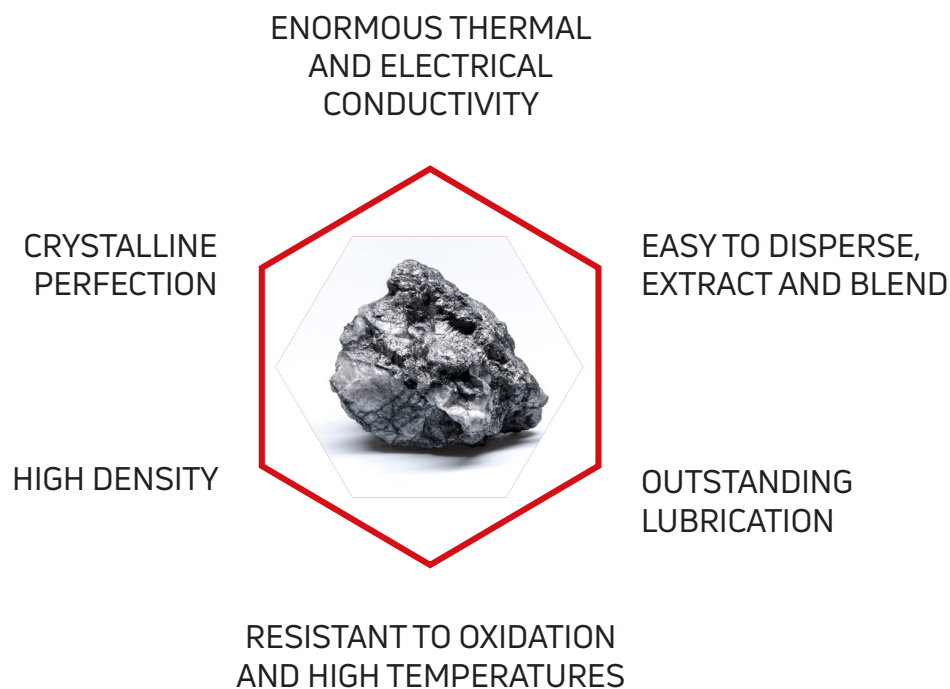
Incredibly pure

Vein Graphite, also known as lump graphite, is a very special material. Its bulky needle-shaped ore which was once formed in veins of up to one meter in width within cracks in the Earth's crust. An outstanding feature of Vein Graphite is that its deposits reach a graphitic carbon content of up to 99.5 % in its natural state underground.

This type of graphite is particularly soft, pure and well-suited for applications requiring high electrical conductivity. Currently, it is only mined in Sri Lanka. The Bogala Mine, which belongs to Graphit Kropfmühl, provides the lion's share of Vein Graphite on the world market.

Outstanding properties

Vein Graphite has many advantageous properties predestined for a number of different applications. It is easy to extract and can be formed into solid shapes without adding a binder. Besides, Vein graphite can be easily blended with other components, especially with copper.



These properties make Vein Graphite a versatile material that is used in many industries, from electronics to the automotive industry.

Applications

- BATTERIES & FUEL CELLS
- CARBON BRUSHES
- FRICTION
- POWDER METALLURGY
- LUBRICANTS
- PLASTICS
- REFRACTORY



Products

The range of Vein Graphite products is very wide, especially due to its various particle sizes. Vein Graphite can be offered as coarse lumps, measuring several centimeters, as well as fine powders with a particle size of 5 micron.

Carbon contents from 94% to 99.5% are typical values for commercially used Vein Graphite.

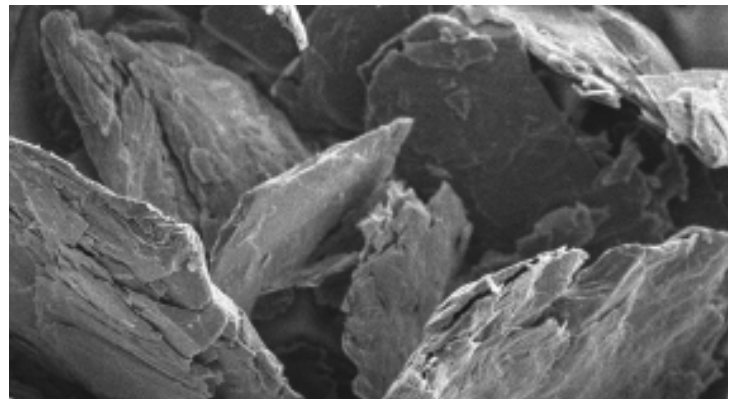
Graphit Kropfmühl offers the best Vein Graphite in various forms - from coarse lumps to fine powders.

Shape and texture

Formed by hydrothermal liquids, vein graphite exists with a purity of up to 99.5% in its natural state underground.

Vein Graphite consists of needle-shaped particles which are the secret behind this graphite's outstanding properties.

The SEM picture below shows one of our graphite grades from our mine in Sri Lanka.



Bogala Graphite Lanka PLC

At Bogala Graphite Lanka plc. in Sri Lanka, high-quality ore is mined underground. This special Vein Graphite is purified, sieved and milling site for the world market. In addition, graphite dispersions are also produced here for the Indian and Asian markets.

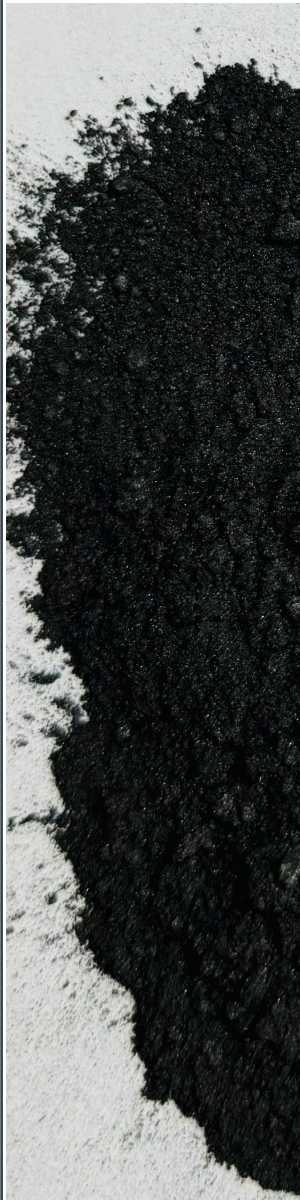
We are the worlds significant vein graphite producer and have been exporting our products to countries such as USA, UK, Japan, India, Pakistan and Germany to name a few. We have contributed significantly to quality and productivity improvements in the industry especially those resulting from the special characteristics of our graphite.

With huge know-how from long-time experience, Bogala Graphite Lanka plc. composed a well-balanced and versatile scope of graphite grades. This scope meets the extensive requirements resulting from the vast variety of applications of graphite.

On customer´s demand we can also provide graphite grades for special specifications.

List of Standard Grades

GRADES	CARBON CONTENT (IN % C)	PARTICLE SIZE	APPLICATIONS	SEM
Bogala Lumps BL	90 - 92	100 % > 10 mm	Refractory, Crucibles, Carbon Brushes	
	90 - 95	100 % > 10 mm		
	95 - 97	100 % > 10 mm		
	97 - 99	100 % > 10 mm		
Bogala Chippy Dust BC	90 - 92	100 % < 5 mm	Carbon Brushes, Friction	
	90 - 95	100 % < 5 mm		
	95 - 97	100 % < 5 mm		
	97 - 99	100 % < 5 mm		
Bogala Bold Chips BB	90 - 92	1.7 mm - 5 mm	Refractory, Crucibles, Friction	
	+ 97	1.7 mm - 5 mm		
Bogala Fine Chips BF	90 - 92	+ 2 mm max. 0.5 % + 850 µm max. 25 % + 250 µm max. 80 % - 250 µm max. 20 %	Refractory, Crucibles, Friction	
	+ 97	+ 2 mm max. 2 % + 1 mm min. 38 % + 212 µm min. 90 %		

GRADES	CARBON CONTENT (IN % C)	PARTICLE SIZE		APPLICATIONS	SEM
Bogala Powder BP	80 - 85	85 % < 75 µm		Chemical Applications (Heat Conductivity), Friction, Pencil	
	90 - 92	85 % < 75 µm			
	95 - 97	85 % < 75 µm			
	97 - 99	85 % < 75 µm			
	+ 98	85 % < 75 µm			
Bogala Fine Powder BFP	90 - 92	40 µm - 90 µm		Chemical Applications (Heat Conductivity), Friction, Pencil	
	95 - 97	+ 180 µm + 75 µm + 53 mm			
	+ 97	+ 180 µm - 180 µm / + 90 µm - 90 µm / + 53 µm - 53 µm	max. 0.05 % max. 2 % 8 - 15 % 83 - 92 %	Chemical Applications (Heat Conductivity), Friction, Carbon Brushes, Pencil	
	+ 98	+ 40 µm - 40 µm	max. 5 % min. 95 %	Chemical Applications (Heat Conductivity), Friction, Pencil	
	97 - 99	+ 40 µm - 40 µm	max. 5 % min. 95 %	Powder Metallurgy	
Bogala Floated Powder CONC	95 - 97	min. 50 % > 106 µm		Chemical Applications (Heat Conductivity), Friction, Pencil	
	+ 98	min. 50 % > 106 µm			



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