

## WHAT IS BASALMIN®?

Basalmin® is a rock dust made from basalt finings quarried in an extinct volcano here in Portugal. It contains many minerals and trace elements as one can see from the analysis below and can be added directly to the soil or to compost. The minerals are released into the soil very gradually depending on bacterial and chemical action and to the size of the particles. Basalmin® contains many fine particles but also a certain amount of grit which also helps the soil to be more permeable. Once Basalmin® is applied it will release minerals for about 4–5years. Basalmin® is not a direct fertilizer, it makes minerals and trace elements available to plants which are not otherwise present in sufficient quantities in the soil. This can do with local geology and prolonged leaching of minerals by rain over millenia.

**Dosage.**

- 5Kg per 10 m2 on the soil
- 1Kg per 40Lt bag of compost or substrate (2 cups is about 1 Kg)
- 2000–4000 Kg per hectare

Please learn more about remineralisation from the following web links:-

- <https://remineralize.org/>
- <http://www.cascademinerals.com/wp-content/uploads/2015/11/SpecSheet-v3.2-2016.pdf>

Elementos	Basalto (pó)	Basalto (brita fina)
SiO <sub>2</sub>	48,04	49,31
Al <sub>2</sub> O <sub>3</sub>	14,13	15,01
Fe total (Fe <sub>2</sub> O <sub>3</sub> )	11,62	11,43
MnO	0,19	0,17
CaO	8,67	8,55
MgO	8,46	7,85
Na <sub>2</sub> O	2,38	2,70
K <sub>2</sub> O	0,91	0,97
TiO <sub>2</sub>	1,79	1,90
P <sub>2</sub> O <sub>5</sub>	0,23	0,25
P. Rubro	3,37	1,71

These tables are taken from the mineral analysis of the rock dust samples used for Basalmin®, made by LNEG ( Laboratorio Nacional de Energia e Geologia I.P.) in Lisbon.

The Full analysis report is available on request

Referência	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Pb	Sc	V	Cr	Co	Ga
Basalto (pó)	25	308	21	137	16	238	154	41	96	6	20	168	308	47	20
Basalto (brita fina)	26	318	22	143	17	250	130	39	93	<6	20	177	288	43	20