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# PRODUCT DATA SHEET

## BARA CLAY GRANULATE 0-2,8

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Bara Clay granulate 0-2,8 is used as an additive in peat- and coco based growthmedium to increase the clay mineral content for horticultural production in flowers, trees and shrubs. 0-2,8 has high cat- and anion exchange capacity and acts as a nutrient buffer for nutrients. 0-2,8 accelerates the absorption of water and disclosure of the water in the substrate. Bara Clay granulate 0-2,8 consists of high quality 3-layer mineral Swedish Plateau Clay. Plateau Clay is formed during the last ice age in Scandinavia and is thus geologically a young clay. The clay is thus free from contaminants such as heavy metals, sodium, chloride and dioxins.

The product is mine locally with minimal environmental impact and carbon emissions. Bara Clay granulate 0-2,8 meets national environmental law requirements and is approved for use in accordance with EU regulations for organic production. Bara Clay granulate 0-2,8 is certified by RHP.

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- Content** Clay granulate 0-2,8. Swedish Plateau Clay, RHP- certified
- Use** 0-2,8 is recommended for medium growing pots and plugs. Larger quantities can be used for the binding of peat- and coco substrates.
- Dosage** 30-70 kg Bara Clay 0-2,8 per m<sup>3</sup>.
- Manufacturing** Bara Clay is manufactured by Bara Mineraler AB. The clay has been crushed, granulated and heat treated in an oven and sieved to fraction 0-2,8mm.
- Packaging** Bulk, 1000 kg BigBag, 20 kg bag (48 per pallet).
- Environmental** Case management is recommended in contact with the product. Wear suitable respiratory equipment: Use a half mask with particle filter P3.



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PHYSICAL PROPERTIES	
Fraction	Granulate
Grain size	0 - 2,8 mm
Bulk density	1100 - 1350 kg/m <sup>3</sup>

CHEMICAL COMPOSITION MINERAL ANALYSIS	
Illite	35 %
Quartz	20 %
Feldspar	10 %
Kaolinite	5 %
Gothiet/Glimmer	5 %

CHEMICAL COMPOSITION OXIDE ANALYSIS	
SiO <sub>2</sub>	67 %
K <sub>2</sub> O	3,5 %
CaO	0,9 %
Fe <sub>2</sub> O <sub>3</sub>	5,6 %
MgO	1,6 %
Al <sub>2</sub> O <sub>3</sub>	14,6 %
P <sub>2</sub> O <sub>5</sub>	0,1 %

BIOLOGICAL PROPERTIES	
Weeds	0-(2) nr/m <sup>2</sup>
Harmful nematodes	0 nr/100 ml

CHEMICAL PROPERTIES	
pH <sub>2</sub> O (No pH influence in substrate)	6,5 -8
CaCO <sub>3</sub> (carbonate lime)	0,1-0,5 %
CEC	20 - 25 meq/100g
Phosphate fixation	90-98 %
H <sub>2</sub> S	No reaction
Dioxin (PCDD)(PCDF)	0,3 ng
P-AL	3 - 14mg/100g
Na	0,3 - 0,8 mmol/l
Mn	0,1 - 0,5 µmol/l
Cl	0,3 - 1,3 µmol/l
B	<1 - 4,2 µmol/l

HEAVY METALS	
Cr	41 - 49 mg/kg
Ni	28 - 73 mg/kg
Cu	22 - 52 mg/kg
Zn	73 - 139 mg/kg
As	6,1 - 9,6 mg/kg
Cd	0,11 - 0,35 mg/kg
Hg	0,03 - 0,5 mg/kg
Pb	17 - 25 mg/kg

COMPOSITION OF THE CEC AND AEC	
Ca <sup>2+</sup>	
Mg <sup>2+</sup>	
NH <sup>4+</sup>	
K	
NO <sub>3</sub>	
SO <sub>4</sub> <sup>2-</sup>	
PO <sub>4</sub> <sup>3-</sup>	

