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# PRODUCT DATA SHEET

## BARA CLAY OXYWET

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Bara Clay Oxywet is used as an additive in peat and cocoa based growth substrates. It is used as a natural wetting agent that keeps the peat moist and spreads the water in the substrate. This increases the oxygen levels in the growth container lower parts very fast. Bara Clay Oxywet 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 contaminates such as heavy metals, sodium, chloride and dioxins.

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

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<b>Content</b>	Clay powder. Swedish Plateau Clay, RHP- certified
<b>Use</b>	Bara Clay Oxywet is used as an additive in peat and cocoa based growth substrates. It is used as a natural wetting agent that keeps the peat moist and spreads the water in the substrate.
<b>Dosage</b>	6-12 kg Bara Clay Oxywet per m3.
<b>Manufacturing</b>	Bara Clay is manufactured by Bara Mineraler AB. The clay has been crushed, granulated and heat treated in an oven.
<b>Packaging</b>	Bulk, 1000 kg BigBag
<b>Enviromental</b>	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	Powder
Grain size	<200 µm
Bulk density	880 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>	

