

Klinofeed®

for water treatment

activated natural clinoptilolite as ion-interchange ammonium / nitrogen

DATA SHEET

Generic Name:	Activated HSCAS, Hydrated sodium calcium aluminosilicate
General Formula:	(NaK) ₄ CaAl ₆ (Si ₃₀ O ₇₂)·24H ₂ O
Selective Priority:	NH ₄ ⁺ >K >> Na > Mg > Ca
Crystalline Structure:	4 Ångström (0,000004 mm)
CAS-No:	2173-10-3

Mineral Analysis

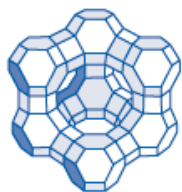
Clino minerals	min.80 %
Clay minerals	13 %
Feldspar	4 %
Mica	3 %
Quartz	0 %
Lead	0 %

Particle Size

0 - 200 micron to be spread directly into ponds
or as filter material 2.5 - 5 mm, 4 -8 mm, 8 -16 mm

Chemical Analysis

Silicium oxide	SiO ₂	71.56 %
Aluminium oxide	Al ₂ O ₃	12.99 %
Calcium oxide	CaO	3.42 %
Potassium oxide	K ₂ O	2.83 %
Ferum oxide	F ₂ O ₃	1.48 %
Magnesium oxide	MgO	0.96 %
Titanium oxide	TiO ₂	0.20 %
Sodium oxide	Na ₂ O	0.68 %
Sulfur oxide	SO ₃	0.04 %
Phosphorus oxide	P ₂ O ₅	0.10 %
Manganese oxide	MnO	0.02 %
Moisture	H ₂ O	5.51 %



Unipoint AG
Gewerbestr. 2
CH-8475 Ossingen

unipoint[®] ag

Phone +41(0)52 305 20 41, Fax +41(0)52 305 20 42 info@unipoint.ch www.unipoint.ch VAT: CHE-106.165.858

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Specification

Humidity at 105° C	max. 6 %
pH	6,9 - 7,1
Specific mass	2,39 g / cm ³
Bulk density	0,7 g / ccm
Specific aera	360-390 m ² /g
Ash content:	94,98 % at 600° C
Symmetry	monoclinic
CEC	240 meq/100g
NH ₄ ⁺ substitution capacity:	120 - 140 meq / 100 g
Ammonium binding capacity	23'500 mg/kg

Application:

As active pond additive Klinofeed can be spend directly into the water, or in solution for easier distribution.

Application Rates: (for shrimps ponds)

1st application 20g / m³

2nd application after 3 weeks 10g/m³ and then every 2 weeks 10 g /m³

Packing:

strong white paper-bag of 25-kg / 36 bag on palette. 114x114 cm

Big-Bag of 1000 kg / pal.

Klinofeed does not absorb vitamins and nutrients

Klinofeed is absolutely free of Dioxins, Lead and Quartz

Produced according: FAMI-QS BE10/23574043 QS-ID 4953113148912 GMP+ PDV114900