



PONDTECHNICS

PROFESSIONAL WATER GARDEN SOLUTIONS

Clinopti Plus (art. n° C25051, CO7162, CO7161, C16322, C16321, C25055, C07165)



- Clinopti Plus-the purest and superior mineral filter

Technical Data

- Chemical Name : Calcium, Potassium, Sodium Aluminosilicate
- Chemical Family : Natural Zeolite
- Chemical Abstract Name : Clinoptilolite
- Chemical Formula : $Ca,K_2,Na_2,Mg)_4Al_8Si_{40}O_{96}.24H_2O$

Mineral Composition

- Clinoptilolite : 88 - 95 %
- Feldspars : 3 - 5 %
- Montmorillonite : 2 - 5 %
- Cristobalite : 0 - 2 %
- Muscovite: 0 - 3 %

** Semi-Quantitative whole rock analysis (bulk mineralogy) has been done using powder X-ray Diffraction Method*

Chemical Composition

- SiO₂ : 65 - 72 %
- MnO : 0 - 0,08 %
- MgO : 0,9 - 1,2 %
- CaO : 2,5 - 3,7 %
- K₂O : 2,3 - 3,5 %
- SiO₂/Al₂O₃ : 5,4 - 6,0
- Fe₂O₃ : 0,8 - 1,9 %
- Al₂O₃ : 10 - 12 %
- LOI*** : 9 - 12 %
- Na₂O : 0,3 - 0,65 %
- TiO₂ : 0 - 0,1 %

** Analysed by XRF Spectromete

***Loss of Ignition

Physical Properties

- Apperance : Ivory white
- Solubility : None
- Abrasion (mg/100g) : 87
- Porosity : 45 - 50 %
- Softening Point : 1150 °C
- Micropore Area : 11 m²/g
- Muddgin Down : None
- Bulk Density : 650-850kg/m³
- pH : 7,0 - 8,0
- Oil Absorption (ml/100g) : 57
- Smell : None
- Plasticity : Minor
- Single Point Surface Area : 39 m²/g
- Hardness : 2 - 3 Mohs
- Melting Point : 1300 °C
- Mesopore Area : 29 m²/g
- Water Absorption : 42 - 50 %
- Effective Diameter of Pores : 4 angstrom

Cation Exchange Capacity (CEC) †

Total CEC : 1,5 - 1,9 meq/g † Methylene Blue Chloride Method

Primary Adsorbing Gases:

CO, CO₂, SO₂, H₂S, NH₃, HCHO, Ar, O₂, N₂, H₂O, He, H₂, Kr, Xe, CH₂OH, Freon, formaldehyde, and mercaptans.

Sizes

- C07162 : 7,00 -16 mm
- C07161 : 7,00 -16 mm
- C16322 : 16,00 – 32,00 mm
- C16321 : 16,00 – 32,00 mm

Characteristic

- Regulates the quality of ammonia, nitrogen and phosphorus components.
- Adsorbs toxic substances (such as heavy metals)
- Has a unique honeycomb structure and rough, pitted and large internal surface
- Easy to replace
- Filters mechanically and biologically
- Improves water quality
- pH neutral
- Works as deodoriser
- Optimum material for housing of filter bacteria
- Works consequently as a type of buffering agent which result is less fluctuations and algae problems
- Weight volume : 650-850kg/m³ ; 1000kg = 1.2m³
- Filters particles down to 3 microns
- Color : ivory white

Application

- Mineral filter media for multi-chamber filters
- Perfect for filtration zones and for swimming ponds
- As substrate in plant basket
- Beautiful and useful for covering of the bottom of the pond

Packaging

- C07162/ C16322 : Small bags 25 kgs.
- C07161/ C16321 : Big bag 1000 kgs.

Remark

- No salts may be added in the pond when Clinopti plus is being used