

DATA SHEET

WZNAT

REFERENCE: PQ1036-PQ1011
COMMERCIAL NAME: WZNAT

PRODUCT IDENTITY

Product name: Wznat
Product description: Natural Zeolite, Clinoptilolite type, dried at 350 °C, milled and sieved.
Particle sizes available: 0,5-1 mm, 1-2 mm, 2-5 mm, 4-8 mm, 8-16 mm and 16-32 mm.
Chemical name: Hydrated potassium calcium sodium aluminosilicate.
CAS Number: 12173-10-3

MINERALOGICAL CHARACTERISTICS

Principal component: Clinoptilolite, 82-86% (XRD Analysis)
Other components: Feldspar, Illite, Cristabalite, and traces of Quartz.
Colour: Greenish grey.
Density of Whole Rock: 2200 - 2440 kg/m³.
MOHS Hardness: 3 - 3.5

PHYSICO-CHEMICAL CHARACTERISTICS

Chemical composition: SiO₂: 68,15%
Al₂O₃: 12,30%
K₂O: 2,80%
CaO: 3,95%
Na₂O: 0,75%
MgO: 0,90%
Fe₂O₃: 1,30%
TiO₂: 0,20%

Cation Exchange Capacity (CEC): Ca²⁺: 1,20 a 1,96 meq/g NH₄⁺: 1,2 a 1,5 meq/g
Porosity: 24 - 32 %
Specific Surface Area (BET Method): 30 - 50 m²/g
Thermal Stability: < 450 °C
Chemical Stability (pH): 3 < pH < 11
Bulk Density of Granules: 0,58 - 0,84 g/cm³ (depending on size)

PRODUCT PRESENTATIONS

Types of packaging available: 20 kg PE sacks, Palletized with 50 sacks per pallet, or 1000 kg Bib bags

RECOMMENDED APPLICATIONS

Swimming pool filters, filters for ponds, aquariums and fish farms.
Municipal and industrial water treatment, ammonia and heavy metal removal, wastewater recycling systems.
