

DiaPure phosphorus filter material Specification

Use

Material for filters to remove phosphorus from household wastewater, agricultural drainage, and urban runoff. The material also retains toxic elements like arsenic and copper and certain organic contaminants like pharmaceuticals.

DiaPure composition and particle characteristics

The DiaPure filter material is produced from natural diatomite material coated with metal oxides using a vacuum coating process. The diatomite is silica based.

Chemical composition (g/kg)

Calcium	Magnesium	Silicium	Iron	Aluminium
15	0.3	250	46	17

DiaPure is a light weight porous material which allows for fast water flow, while its internal porosity binds and stores phosphorus efficiently.

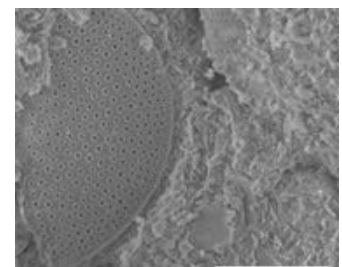
- Brownish-red granular material
- Particle size: 2- 4 mm (>83%), 0.09-2mm (<17%)
- Bulk density: 0.6 kg/L
- Total porosity of filter columns: 80 %
- Specific surface area: 40 m²/g
- Water holding capacity: 1 L per kg dw filter material
- Flow: Up to 10 L/s for 1 m³ filter with hydraulic head of 1 m
- Phosphorus binding capacity: 10 g P/kg



DiaPure filter material

First use

New material releases a small fraction of salts, iron and fine particulates when first used.



Micropores in the DiaPure material

DiaPure AB

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Kontor/produktion: Alnarps Mellangård, Mellangårdsvägen 4, 230 53 Alnarp.

Faktura adress: Thulehemsvägen 157, 224 67 Lund Bg.5115-1009, org nr. 559057-6608



Hazards and handling

The DiaPure material is a non-flammable material. No physical, health and environmental hazards. Dry material may generate dust during handling. Wear gloves, and dust mask if the material is handled dry.

Storage and handling

DiaPure material is stable and should be stored dry or wet under aerobic conditions.

No safety precautions during transport.

Toxicological and Ecotoxicological Information

The DiaPure material has properties similar to soil. No toxicological data exists. Not hazardous to the environment.

Disposal

Material can be disposed as non-hazardous mineral or soil.

Used material from domestic sewage treatment, shall be treated as hazardous waste due to content of pathogenic microorganism.

Ask your local municipality.



DiaPure filter material is provided in bigbags

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