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Variant: Product designation:

gnation: Filter soil

Responsible: Item number: Producer:

400082, 400114 DANSAND A/S, Lervejdal 8B, 8740 Brædstrup

Afdelingschef - QHSE, Morten Grundvad

DANSAND® filter soil

Filter soil with high cleaning capacity

Description

Soil is one of the best, cheapest and most versatile media for filtering and purifying water. Filter soil is often used in connection with seepage of surface water, because it meets some of the requirements related to climate change adaptation.

DANSAND® Filter Soil is produced without raw soil, but instead with controlled raw materials such as compost, sphagnum, clay and washed sand. DANSAND® Filter Soil contains no undesired substances and can be classified as pure soil.

Most known purification processes are active in our filter soil, ie filtration, plant uptake, adsorption of dissolved organic and inorganic material and decomposition of organic pollutants. In this manner, DANSAND® Filter soil can purify the water of a wide range of problem substances: fine particulate matter, heavy metals, phosphorus and most environmentally harmful organic micro-pollutants such as hydrophobic and mobile organic substances, including oil, PAH, plasticisers and pesticides.

In our mixing plant, we can create a mix of filter soil that is suited to the current situation, be it rapid infiltration, high purification or optimised plant growth. This means that we always deliver a homogeneous product, which is a prerequisite for optimal utilisation of the filter's reactive surface area. At the mixing plant, we also have the option of adding other minerals such as lime or activated carbon (charcoal).

BENEFITS OF DANSAND® FILTER SOIL

- One of the best filter media for water purification
- Cost-effective solution
- · High water permeability
- · Good cleaning ability
- Creates good growth conditions for plants
- Can be mixed according to match the job at hand
- Homogeneous product

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DANSAND® Filter Soil is manufactured in accordance with the guidelines in the German Arbeitsblatt DWA-A 138, where, among other things, a number of requirements are set for the soil's pH value, content of sand, silt, clay and organic material.

Product specification

DECLARATION

Minten Dia yerterickeess:

300 mm Gravel	0-5 %
Coarse sand	60-75 %
Fine sand	15-30 %
Silt	2-4 %
Clay	2-4 %
Ignition loss	3-6 %

BANSAND PILTER SORS

300 mm Gravel	0-5 %
Coarse sand	60-80 %
Fine sand	10-20 %
Silt	1-3 %
Clay	1-3 %
Ignition loss	1-4 %

DELIVERY

Delivered as bulk.

STORAGE

No specific requirements

ENVIRONMENTAL INFORMATION AND DISPOSAL

When deposited, DANSAND® Filter soil is classified as "clean soil." During use contaminants such as heavy metals and environmentally alien are absorbed and accumulated in the filter soil.

Filter soil should be replaced before the accumulated pollution level reaches a level that causes the soil to be classified as contaminated. It is likely that the non-degradable heavy metals will trigger replacement requirements first, since the conditions for decomposition of organic pollutants are generally expected to be good in filter soil. However, there may be certain exceptions in the form of difficult-to-degrade compounds.

Studies of filter soil in a number of German plants, the oldest about 10 years old, have shown that the filter soil, with few exceptions, was not contaminated with heavy metals to a level that exceeded pollution class 2 (slightly contaminated soil).

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The pollution accumulates primarily in the upper part of the soil profile. Therefore, it will probably be sufficient to replace the top 5-10 cm of the filter soil.

Manual

APPLICATION

DANSAND® Filter soil can be used as an integral part of several types of seepage solutions, for example ditches, troughs and rain beds. The filter soil must be covered in vegetation and should constitute the top soil layer in the plant. The recommended layer thickness is 30-50 cm. The water can seep into the groundwater once it has passed the filter soil. In poorly draining areas, a fascine, a drainage layer or a drainage pipe can be placed immediately below the filter soil.

The filter soil must be replaced over time, partly to maintain optimal cleaning and seepage properties and partly so that the soil does not have to be classified as heavily contaminated soil (class 3 or 4). It is not possible to determine the service life of filter soil as this depends on the individual situation - such as the composition and quantity of the soil as well as the degree of contamination of the surface water handled. With a clean starting material, it is estimated that the filter soil can be used for 20-50 years before replacement is necessary. We recommend that the soil contamination level be checked every 10 years at the very least.



DANSAND® filter soil

Variants: DANSAND® Filterjord 1 - 400082, DANSAND® Filterjord 2 - 400114

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