

Filtralite® Nature P 0,5-4



PRODUCT DESCRIPTION

Filtralite® Nature P 0,5-4 is high quality filter media, manufactured from expanded clay material, used for filtration and purification of waste and effluent water for dispersed settlements.

ADVANTAGES

Filtralite® media, with its highly porous structure, enables large microbial growth surface for biological filtration which means improved filter capacity and reduced operational costs. Filtralite® Nature P media, with its high content of limestone, improves phosphorus removal from waste and effluent waters.

EXPLANATIONS

P = Phosphorus removal, N = Normal density, M = Medium density, H = High density, C = Crushed, R = Round

PRODUCT SPECIFICATION

| | |
|-------------------------|---|
| Commercial name | FILTRALITE® P 0,5-4 |
| Density | Bulk density, loose : 380 kg/m ³ |
| Type of material | Expanded clay |
| Appearance | Porous surface with white particles |
| Manufactured by | Leca Rælingen (Saint-Gobain Group), Norway |
| Version | 9 |

| Size and weight | Value | Deviation | Comments |
|-----------------------------------|-----------------------|--|--------------------|
| Particle size range | 0,5-4 mm | > 4 mm max. 10 % < 0,5 mm max. 10 % | EN 12905 |
| Bulk density, dry, loose | 380 kg/m ³ | ± 75 kg/m ³ | EN 1097-3 |
| Particle density, apparent | 950 kg/m ³ | ± 200 kg/m ³ | EN 1097-6: Annex E |

| Other properties | Value | Comments |
|-------------------|-------------|------------------------------|
| Voids | ~ 60 % | EN 1097-3, approximate value |
| pH | ~ 12 | Leca norm |
| Alkalinity | ~ 35 mekv/l | NS 4754, approximate value |

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The sewage water has to be pre-treated in septic tank and aerobic biofilter (or equivalent system) before the Filtralite P filter bed. Recommended loading of pre-filtrated municipal wastewater: 7-10 m³ Filtralite P / p.e, (p.e. = 0,6 kg P /year). The material will leak some lime during the start-up period. (All values are based on the assumption of using the filter material in a saturated reed bed / constructed wetlands with long retention time and exposed to typical municipal wastewater.) We strongly recommend use of consultants or system suppliers for dimensioning and design of wetland systems. This material shall not be pumped.

| Chemical composition, approximate values | | | | | | |
|--|--------------------------------|--------------------------------|-------|-------|------------------|-------------------|
| SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O |
| 55-60 % | 15-18 % | 6-7 % | 5-7 % | 4-8 % | 3-4 % | 1-2 % |

DISCLAIMER

The information provided in this data sheet is based on our current knowledge and experience. All the above information must be considered as guidelines. It is the user's responsibility to ensure that the product is suitable for the intended use and perform self-monitoring. The user is responsible if the product is used for purposes other than those recommended, or improper execution. We are available for consultation in the use of our products.

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Leca Norge AS - Reg. of ent. NO 918 799141 MVA/VAT
 Årnesvegen 1 • N-2009 Nordby • Norway
 Telephone: +47 41 43 71 00