

Filter material Hydro-Phonolith in accordance with DIN EN 15795*

Hydro-Phonolith is a broken, natural filter material with high mechanical stability for treating water for use by humans. The basic material for natural phonolite is a tertiary effusive rock (volcanic rock from the Upper Rhine Trench).

The chemical composition of the hard phonolite is similar to that of natural soft and porous pumice. Both are lava rocks, although they have different physical structures.

Hydro-Phonolith has better filtering properties in comparison with quartz sand, thereby delivering an optimum filtration result. The material is also particularly suitable for optimising existing systems.

- Area of application**
- Drinking water treatment
 - Industrial water treatment
 - Swimming pool water treatment
 - Waste water filtration

Physical properties

Type: Light grey grainy material, spherical shape, rough surface

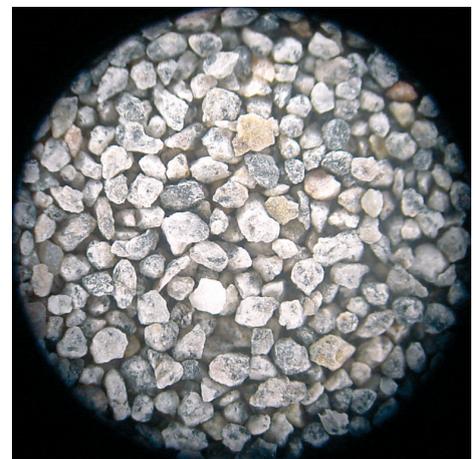
Raw density: 2.5 – 2.6 kg/dm³ Bulk density: 1.25 – 1.4 kg/l

Grain size: 0.4 – 0.8 mm (K1) Undersize/oversize < 5 %

Free of organic materials

Chemical composition (average values)

Silicon dioxide	(SiO ₂)	49 % by weight
Aluminium oxide	(Al ₂ O ₃)	18 % by weight
Calcium oxide	(CaO)	8 % by weight
Sodium oxide	(Na ₂ O)	7 % by weight
Potassium oxide	(K ₂ O)	5 % by weight
Iron oxide	(Fe ₂ O ₃)	4 % by weight
Carbon dioxide	(CO ₂)	2 % by weight
Magnesium oxide	(MgO)	1 % by weight
Titanium dioxide	(TiO ₂)	<1 % by weight
Manganese oxide	(MnO)	<1 % by weight
Phosphorous pentoxide	(P ₂ O ₅)	<1 % by weight
Crystal water	(H ₂ O)	5 % by weight



Forms of delivery In 22.5 kg sacks, in 1,000 kg Big Bags or in a silo vehicle

Trade name Hydro-Phonolith (in accordance with DIN EN 15795*)

Manufacturer Hans G. Hauri KG, Mineralstoffwerk, Bötzingen

* **DIN EN 15795:2010-12:** Products used for treatment of water intended for human consumption
- Natural, unexpanded aluminosilicates;
German version EN 15795:2010