GEH® 101 Granular Ferric Hydroxide for Waste Water Treatment

- ✔ Purification of industrial and municipal wastewater
- ✔ Groundwater remediation
- ✔ Preparation and treatment of process water
- ✔ Treatment of (landfill) leachate

Product Description

How to specifically remove heavy metals and other contaminants from wastewater?

Using our high performance adsorbent GEH® 101, based on granular ferric hydroxide. It complies to all requirements of the DIN EN 15029, guaranteeing a high quality for the best performance.

Guard the water resources with GEH® for waste water treatment.

Target Substances

Contaminants, which are removed by GEH® 101 from water:

- Arsenic (As)
- Copper (Cu)
- Molybdebum (Mo)
- Lead (Pb)
- Antimony (Sb)
- Uranium (U)
- Vanadium (V)
- Zinc (Zn)
- Hydrogen Peroxide (H_2O_2)
- Hydrogen Sulfide (H_2S)
- Phosphate (PO_4)
- Silicate (SiO_4)

Source of solutions.

Granular Ferric Hydroxide for Waste Water Treatment

GEH® 101

Properties

Chemical composition	ß-FeOOH and $Fe(OH)_3$
Dry solid content	58 % (± 10 %)
Iron content, relative to dry solids	600 g/kg (± 10 %)
Particle size range	0.2 – 2.0 mm
Undersize fraction	< 10 %
Total oversize and undersize fraction	< 20 %
Bulk density, backwashed	1150 kg/m³ (± 10 %)
Specific surface area (BET-method)	approx. 300 m²/g

Underground Filter Beds

When dimensioning an underground filter, in addition to the calculation of the required quantity of GEH® 101, as well as the hydraulic load of the system, also information about the geological situation is required. The adsorption capacity depends on the water parameters and operating conditions. A specialized planner should be involved for the dimensioning and design.

Transport and Storage

The packaging takes place in big bags or plastic drums, whereby the filling quantities are directed to the individual customers' needs.
The product is stable and can be stored for at least one year. To prevent the material from drying out, the big bags should be closed and, if possible, not stored outdoors. Outdoor storage is possible in plastic bags or protected from direct sunlight and at moderate temperatures (0 - 25° C). The big bags must not be stacked.

Individual Application Advice

Every application in water treatment has its own special requirements. A meaningful dimensioning of the plant and definition of the operating conditions can only be made after examining the individual case. The recommendations contained in this data sheet are therefore legally not binding. We will gladly advise you in detail on your application.

In addition, the General Terms and Conditions of GEH Wasserchemie GmbH & Co. KG apply.

NSF Certified to NSF/ANSI 61

TÜV NORD CERT GmbH DIN EN ISO 9001

Quality management system certified in accordance with ISO 9001:2015

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GEH wasserchemie

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