



LENNSORB 101



LENNSORB 101 | Granular Ferric Hydroxide for Heavy metals removal

■ Product Description

LENNSORB 101 is a high performance adsorbent based on granular ferric hydroxide. Made in a patented manufacturing process, it was special developed for selective removal of heavy metals and other toxic elements from water.

Recognized for its high quality, LENNSORB 101 adsorbent complies with all requirements of DIN EN15029

■ Application Sectors

LENNSORB 101 has been successfully used for many years for heavy metal removal in groundwater purification as well as in treatment of process wastewaters and landfill leachates.

LENNSORB 101 can be used in adsorption filters, underground filtration beds and permeable reactive barriers around polluted soil.

LENNSORB 101 adsorbs heavy metals such as chromium, uranium, copper and lead, as well as other toxic elements including arsenic, antimony, vanadium, molybdenum and selenium. Its adsorption capacity depends on the composition and properties of the water to be treated and the operating conditions.

Granular Ferric Hydroxide for Heavy metals removal

■ Properties

Chemical composition	β -FeOOH and Fe(OH) ₃
Dry solids content	57 % (± 10 %)
Iron content	610 g/kg (± 10 %), relative to dry solids
Particle size range	0.2 – 2.0 mm
Oversize fraction	< 10 %
Undersize fraction	< 10 %
Bulk density, backwashed	1150 kg/m ³ (± 10 %)
Specific surface area (BET method)	approx. 300 m ² /g

■ Recommended Operating Conditions

<i>Adsorption filters</i>	
Bed depth	0.8 – 1.6 m
Freeboard height	50 % of bed depth
Filtration velocity	≤ 20 m/h
Empty bed contact time (EBCT)	≥ 3 min
Pressure drop	max. 0.5 bar (7 psi)
Backwash velocity	26 m/h (backwash with water only)
Duration of backwashing	until outlet water is clear

■ Transport and Storage

LENNSORB 101 is supplied in plastic drums, FIBC's ("big bags") or tank trucks in the specific quantities required by the customer. The product is not subject to degradation in storage and has a storage life of at least 1 year. The product must not be permitted to dry out (e.g. do not expose to intense sunlight).

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Quality management system certified
in accordance with ISO 9001:2008

