



Filtering material **ECO FER**

HIGH-EFFICIENT REGENERABLE FILTERING MEDIA FOR REMOVAL OF IRON AND MANGANESE COMPOUNDS FROM WATER

EcoFER is granulated catalytic aluminosilicate filtering material made of natural raw material. Chemical reagents are not required for its filtration performance (regeneration): filter backwashing is enough. Media granulas' structure includes catalytically-active components that ensure effective work even with its destruction.

WAY OF PROCEEDING

During water passing through the media, catalytic oxydation occurs. As a result, iron Fe^{2+} and manganese Mn^{2+} form residual matter (ferrum and manganese hydroxides). This residual matter is held into the media layer and then it is removed during filter backwashing (regeneration) easily.

APPLIANCE

It is used in pressurized and free-flow water treatment systems. The media works in systems with ferrum and manganese oxydation by oxygen, ozone, chlorine and etc. effectively.



Article: 40149

Package: a bag of 28,3 l

Colour: light brown

Poured density: 700 kg/m

ADVANTAGES

- Long-term service – up to 5 years
- It can be used even if there are hydrogen sulphide, oil products and free chlorine in water.
- To be regenerated the media does not require special reagents.
- Iron and manganese high capacity.
- It can work with all types of oxidizing agents (oxygen, ozone, hydric dioxide, hypochlorite of sodium, etc...)
- Stable water treatment is throughout operational life time. By contrast with foreign counterparts.

CONDITIONS OF APPLICATION

- It operates under pH over 6,5
- Filtration rate - 8-15 m/h
- Backwashing rate - 20-25 m/h
- Layer enlargement under backwashing - 30-40%
- Presence of oxidizing agent (oxygen, hypochlorite of sodium, ozone, hydric dioxide, etc.)
- Height of filtering layer - 400-1000 mm
- Media holding capacity - 1000 mg/l.
- Dissolved Oxygen (D.O.) content must be equal to at least 15% of iron and 29% of the manganese content.

ECOFER PURIFICATION EFFICIENCY

Feed water		Treated water	
Index	Content	EcoFER	
		Index value after purification, mg/l	Purification efficiency, %
[Fe], mg/l	2	0,3	85
[Mn], mg/l	0,8	0,05	94
pH	6,4	7,8	

This comparison shows that EcoFER media is more iron and manganese removal-efficient. In addition, water pH increase is three times slower than determines other materials.