

Iron Removal Filter Bags-FCI IRM

Ground water with dissolved irons is discolored, distasteful and emits foul smell. It is harmful to human health if not properly treated. In industrial process water, iron ions form tough scales on piping and holding tanks, negatively affect heat exchange efficiency and corrode equipments.

FCI IRM Iron Removal Bags consist of natural Magnesium Dioxide (MnO₂) tablets which redox and precipitate dissolved iron. The solidified iron content is eventually trapped in IRM's filter media and won't be released to downstream.

FCI IRM features large water contact surface, insolubility and maximized catalytic capabilities.

Features

- Use only high grade Magnesium Dioxide tablets. Purity is 35% minimum, 42% purity average.
- 85~90% dissolved iron removal rate. Effective removal of iron from drinking water, ground water and process water.
- Completely eliminated the need for investment in specialized iron removal equipment and hardware.
- Non-bounding loose magnesium tablet fill. 100% contact surface exposure preserved.
- Extra large volume of magnesium fill. A size two bag contains 14 kg of premium grade of iron removal magnesium tablets.
- High catalytic speed: exchange takes place immediately on water-magnesium contact.
- Low pressure drop, low velocity, longer water/resin contact time .
- Dual functionalities: Iron removal & contaminant particle retention.
- 1 ~ 100 micron range, nominal rating.
- Exclusively FDA compliant media.



Typical Application

Ideal for industrial, commercial and residential iron removal. Simple and sound economical alternative to costly investment in specialized iron removal equipment and systems. Dual functionality of iron removal and water contaminant filtration provide excellent added value to customers.

FCI IRM is ideal for iron removal applications in which the iron content is 20 mg/liter or less.

- Industrial process water treatment
- Commercial and residential drinking water treatment
- Industrial waste water

Filter Size	Media Type	Filter Media	Iron Removal	Working temp.	pH Range	Filter Area (m ²)	Volume- Ltr.
Size 1	Magnesium Dioxide	Polypropylene	≥ 15 g/L	5 ~ 60°C	3 ~ 9	0.25	8.0
Size 2	Magnesium Dioxide	Polypropylene	≥ 15 g/L	5 ~ 60°C	3 ~ 9	0.50	17.5
Size 5	Magnesium Dioxide	Polypropylene	≥ 15 g/L	5 ~ 60°C	3 ~ 9	0.25	8.0

Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 ASME 'U' & 'UM', The National Board Of Boiler & Vessel Inspectors 'R' & 'NB' and CE Certified Company)

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