

# DMI-65 Iron Removal Media

*Higher capabilities in removal of iron (Fe), manganese (Mn) and arsenic*

## Feature

- Special sand material which is efficient in removing iron, manganese, and arsenic.
- Oxidation catalytic filter media certified by NSF/ANSI 61 drinking water system components standard.
- Proper usage can let the DMI-65 last for at least 5 years.



## Key Advantages

- **Minimal Catalyst Requirement:** Achieve optimal iron and manganese removal by adding only a small amount of sodium hypochlorite.
- **No Additional Equipment Needed:** No sedimentation tank, aeration tank, or coagulant are required which simplifies the system.
- **Stable Performance:** Operates effectively within a pH range of 5.8-8.6, ensuring stable performance. Not only outperforms other iron removal filter media but also offers a more competitive price in the market.
- **High Flow Rate:** Provides twice the flow rate compared to ordinary filter media (L.V. 10-30 m<sup>3</sup>/hr).
- **Low Operating Costs:** Requires only regular backwashing; no additional chemicals are needed for regeneration.
- **Efficient Removal:** Effectively reduces iron concentration in raw water from 10 mg/L to less than 0.01 mg/L.
- **Longevity:** With normal use and regular backwashing, DMI-65 can last for at least 5 years and there is no need to replace the filter media often.

## Technical Specification

Physical Properties		Operating Conditions	
Colour	Brown to Black	pH Range	5.8 - 8.6
Bulk Density	91.0 lbs/ft <sup>3</sup> 1.46 gr/m <sup>3</sup> 1.46 tonne/m <sup>3</sup>	Maximum Water Temperature	113° F (45° C)
Specific Gravity	2.69	Minimum Bed Depth	24 Inches (600mm)
Effective Size	0.3 - 0.6mm	Free board	40% minimum
Uniformity Coefficient	1.4	Service Flow Rate	5 - 30m <sup>3</sup> /m <sup>2</sup> per hr
Mesh Size	20 - 40	Backwash Flow Rate	25 - 40m <sup>3</sup> /m <sup>2</sup> per hr
Annual Attrition	1% - 5%	Backwash Expansion	20% - 50%