

New Iron Removal Media MZ10 Plus

Description

Aventura in association with Purolite, a premier manufacturer of resins from USA, offers iron removal media MZ10 Plus. The dark-to-black colored catalytic media can remove soluble iron, manganese, hydrogen sulfide, arsenic and radium from water supplies. For drinking water applications the media can be effective for over 10 years.

Operating Properties

Appearance	Black granules shipped in a dry form
Specific Gravity	Approximately 2.4
Capacity	490 to 840 gm/m ² of bed area
Screen Size Range (dry)	-16 +60 B.S.S. Std. Mesh
Particle Size Range (dry)	0.25 mm to 1.2 mm
Effective Size	0.30 - 0.35 mm
Uniformity Coefficient	Less than 1.6
Shipping Weight	Approx. 1450 g/l
Porosity	Approx. 0.45

Operating Conditions

pH Range	6.2 - 8.5
Max Operating Temperature	No specific limit
Max Differential Pressure across the Bed	0.85 Kg/cm ²
Backwash Characteristics	30 m ³ /hr/m ² minimum
Service Flow rate	5 - 30 m ³ /hr/m ²
Minimum Bed Depth	700 mm (400 mm min each if dual media is used)

Advantages over the existing iron removal media

- ▶ Can take max iron concentrations up to 20 ppm
- ▶ Can reduce iron, Mn and H₂S up to < 0.1 ppm
- ▶ No limitation of dissolved oxygen
- ▶ No limitation of alkalinity and TDS in water
- ▶ Needs only periodic backwash with treated water
- ▶ Can be operated at high temperatures and high differential pressures without breakdown of media
- ▶ No pre-treatment required to remove chlorine in feed water
- ▶ Used with chlorine, the media offers excellent resistance to biological contamination
- ▶ NSF approved

FREQUENTLY ASKED QUESTIONS

Can MZ10 Plus be used in existing filters designed with other media in the market?

Yes. MZ10 Plus can be used as a direct replacement media for all existing iron removal filters. Provisions for chlorine dosing and/or rinsing the bed with hypochlorite solution will need to be made.

What are common applications for MZ10 Plus?

Common uses for MZ10 Plus include potable water treatment and pre-treatment for ion exchange resin / R.O. plants.

What is the advantage of MZ10 Plus in drinking water applications?

The nodular shape, controlled grading and durability of the media provide for excellent filtration efficiency—even after years of continuous service.

Can we do hot water sanitization of MZ10 Plus with water at 100°C?

Yes, hot water sanitization of MZ10 Plus can be done at 100°C.

Can we use MZ10Plus at the outlet of a solar water geyser or a hot water electric geyser?

Yes, the product remains effective under high temperatures.

Is MZ10 Plus NSF approved?

Yes, MZ10 Plus is NSF approved.

Does MZ10 Plus help remove H₂S in the feed water?

Yes, MZ10 Plus is very effective in removing H₂S from incoming water. The amount of chlorine dosing depends on levels of H₂S present in the feed water.

Is MZ10 Plus effective in removing iron from waste water, where wastewater has limited or no oxygen?

Yes, when MZ10 Plus is used according to our specified process, it is very effective in removing iron and manganese from wastewater, even if the dissolved oxygen level is almost nil.

What kind of filtration system is needed?

Systems using either vertical or horizontal pressure filter, or gravity filters can be used.

Does MZ10 Plus require a separate aeration tank?

No, MZ10 Plus does not require a separate aeration tank.

Does MZ10 Plus have parameters for levels of dissolved oxygen, alkalinity, free chlorine, H₂S, TDS, or pH of water?

For best results, it is recommended that water pH exceed 6.2. There are no other limitations or restrictions.

How is MZ10 Plus packaged?

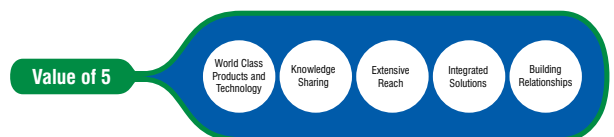
The media is shipped in dry form within easy-to-handle 40 kg bags.

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