

Iron Removal Resin

Iron Removal Resin Media

DOSHION DIRM is resin media for effectively removal of dissolved iron from ground water.

DOSHION DIRM is an insoluble resin media which enhances the oxidation of dissolved iron and converts the soluble iron (Fe^{++}) into insoluble Ferric (Fe^{+++}) which produces ferric hydroxide and can be filtered through resin media. DIRM not only effectively removes the iron present as a ferrous iron, but also colloidal iron, soluble organic iron and bacterial iron are also removed. Regeneration of resin media can be done by simple back washing with raw water

The Advantages of DOSHION DIRM:

- It is an insoluble resin media acting as an iron filter.
- Granular shape & Particle size is to suit flow dynamics of a treatment plant.
- Longer life due to regenerable nature and hence very economical over the consumable conventional media.
- High efficiency to remove iron as compare to conventional media, almost iron free water (<0.2 ppm) can be obtained.

Properties		
Colour		Dark Brow to Black
Particle size	mm	0.30-1.20
Effective size	mm	0.45-0.60
Moisture Content	%	46-54
Voids	%	40
Bulk Density or Shipping Weight	gms/ ltr	770 to 800

Operating Conditions		
pH of feed water		> 6.5
Dissolved oxygen		> 15 % of Dissolved iron
Alkalinity	ppm	>100
Free chloride		Nil
Organic matter	ppm	< 1.0
TDS (max)	ppm	2500
Temperature (max)	°C	40
Bed depth	mm	700 -1500
Service flow rate	*BV	15
Back wash flow rate	*BV	25-30
Back wash bed expansion	%	50
Back wash time	min	15-20
Back wash frequency	hrs	8-10

* Bed Volume

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Parameter	Doshion DIRM	Other Media	Advantages of Doshion DIRM
Shipping Weight (kg/Ltr)	0.78 - 0.80	1.4-1.5	Iron removal media plant is designed on volume of media. Other available iron removal media are having high shipping weight as compare to DIRM, hence they require almost double quantity than DIRM. They are sold in weight units so customer has to buy more quantity in weight units to arrive at required volume. DIRM is sold in volume unit so no hidden cost for required volume. Thus Doshion DIRM is more cost effective.
Effective size (mm)	0.45 - 0.60	0.3 - 0.35	Doshion DIRM having higher effective size so the pressure drop across the DIRM media is lower than other Iron removal media which have smaller effective size.
Pressure drop (kg/cm ²)	0.3-0.5	0.7-0.85	Thus with DIRM, the power consumption as well as water required for backwash is much lesser than other iron removal media.

Storage Conditions: The DIRM Media which is supplied in drums or bags should be stored in a cool place (Shed/ Warehouse) and away from direct sunlight and should be periodically damped with clean water.

Technical Bulletin: Design curves are available with Doshion Technical Services Department.

Packaging Sizes:

- 25 ltrs international standard PE pillow bags for easy handling while manual or vacuum charging in vessels
- 1 m³ pallet having 40 x 25 ltrs PE Pillow bags
- 1000 ltrs Jumbo bag
- Customized packaging are also available on request.

Full Range of Ion Exchange Resins

Cation Exchange Resin	Anion Exchange Resin	Speciality Resin	DM Resin
CSA 121	GA 11	DCHR 74	DMB 13
CSA 9	GA 12	DCHR 78	
CSA 9 L	GA 13	DIRM 412	
CSA 29	ASB 108	DCR 11	
CSA 609 D	ASB 171	CWS 66 D	
CWA 63	ASB 1080 D UPS	DMB 13 S	
CWA 92 D	ASB 8020 D	CGC 1200	
CSA 309	AWB 7020 D	CMC 1900	
	AWB 7030 D	CMC 2400	
	AWB 7050 D		
	GA 711		

Full Range of Membrane Performance Chemical

RO Membrane Chemicals	UF Membrane Chemicals	EDI Membrane Chemicals	Speciality Chemicals
DCC – Bior	DCC - UFC - I	EDC - SNO - IO - 56	Doshion - 1180
DCC – Inor	DCC - UFC - O	EDC - SNO - IO - 74	Doshion - 1118
DCC - Col	DCC - UFC - C		Doshion - 3426
DCC - Stor	DCC - UFC - S		Doshion - 9711 (P)
Doshion - 51 (HS)			Doshion - 9718 (Z)
Doshion - 52 (L)			
Doshion - 53			
DoScale - 65			
Doshion - 6311 - LS			

Full Range of Pharmaceutical Polymers

Active Pharma Ingredients	Excipients	Speciality Polymers	Ready Mix & Ready to Use
Doshion P-504 (Sodium Polystyrene Sulphonate USP / EP)	Doshion P-504 (Polystyrene Resin)	Doshion P-520	Doshion P-542 AB (R)
Doshion P-548 BP (Calcium Polystyrene Sulphonate BP)	Doshion P-514	Doshion P-535	Azithromycin Taste Masked (7.5%)
Doshion P-548 JP (Calcium Polystyrene Sulphonate JP)	Doshion P-542		
Doshion P-550 (Cholestyramine Resin USP / EP)	Doshion P-542 AB		
	Doshion P-542 CP		
	Doshion P-542 D		
	Doshion P-544 C		
	Doshion P-544 R		
	Polyflash Doshion P-544 DS		
	Doshion P-544 DS (Cipro)		
	Polyflash Doshion P-544 DB		
	Polyflash Doshion P-544 D		
	Doshion P-550		
	Doshion P-551 (Polyacrilix Resin)		

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Translating Source Into Resource

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