HYDROLUX

We are experts on liquid purification

HYDROLUX® UP2292 MD

Mixed Bed Resin For High Purity Application

Descriptions

HYDROLUX® UP2292 MD is a premium grade mixed bed resin. It is specifically designed and manufactured for use in high purity water system.

HYDROLUX® UP2292 MD is a fully regenerated mixed bed of uniform particle size cation and anion exchange resin. This mixed bed product is particularly suitable for use in the polishing of high purity water for specialty electronics applications, pharmaceutical, power plant and chemical manufacturing industry.

HYDROLUX® UP2292 MD is also suitable for any general purpose mixed bed applications for the economic production of high purity water.

HYDROLUX® UP2292 MD has good kinetic performance, mechanical and chemical stability since its component resins are uniform particle size resins. Component resins are mixed to give a stoichiometric equivalent of cation and anion exchange capacity.

All the above characteristics provide customers with benefits of producing high purity water economically.

Specification

Type		Strongly Acidic Cation Gel Type	Strongly Basic Anion Gel Type
Matrix		Polystyrene + DVB (Divinyl Benzene)	
Ionic Form		H^+	OH^-
Shipping Weight (g/L)		695	
Total Capacity		1.9 eq/L ↑	1.0 eq/L ↑
Moisture Contents (%)		53 ± 5	62 ± 5
Uniformity Coefficient		≤ 1.1	≤ 1.1
Particle Size (mm)		630 ± 50	590 ± 50
Ionic Conversion%	H form	99.0 Min	
	OH form		95.0 Min
Mixed Ratio (%)		1:1 (by equivalents) Cation : Anion	
Operating Temperature		60 ℃ Max	

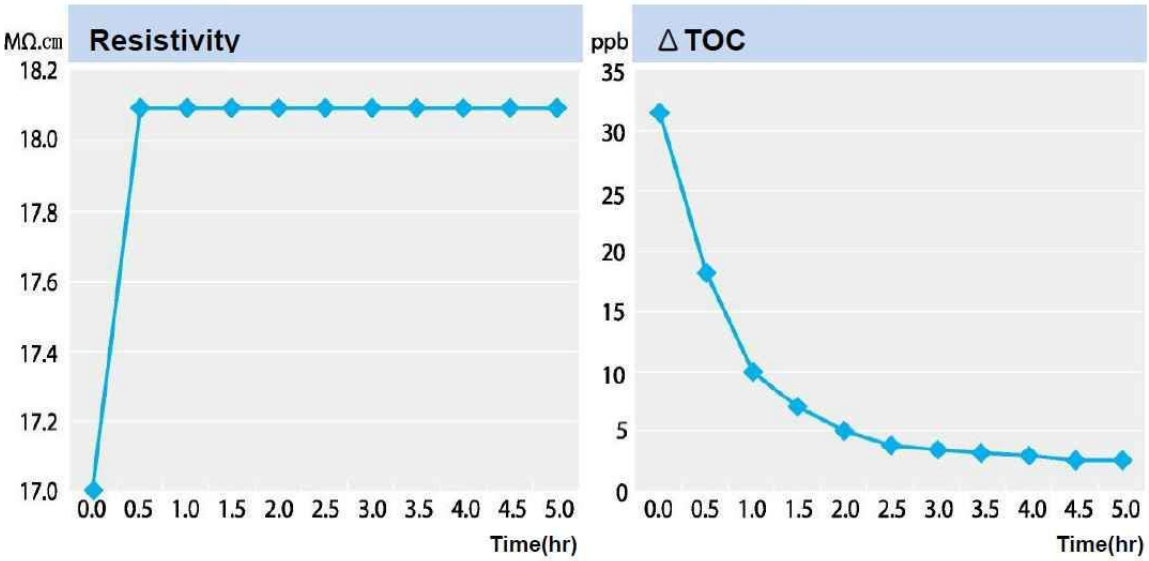
Suggested Operating Conditions

Feed water temperature	15 to 25°C
Minimum bed depth	900 mm
Service flow rate Recommended *influent* water quality	30 to 50 BV*/h
Inlet Resistivity	> 17.5 MΩ·cm
Inlet Silica	< 2 ppb
Inlet Total Organic Carbon	< 2 ppb

* 1 BV (Bed Volume) = 1 m3 solution per m3 resin

Resistivity and TOC Performance

- Resistivity > 18.0 MΩ·cm
- ΔTOC < 5ppb
- Feed Water : Resistivity > 17.5 MΩ·cm, TOC < 2ppb, SV = 30 BV/h



Handling

To protect eyes and skin of operator, protective gears such as glasses, sometimes gloves are necessary. It is recommended that eye-wash facilities are nearby at the using area. Since it is small beads type, it will be very slippery when it is spilled on the floor. Exposure to high temperature, sparks and flames should be avoided. Exposure to or mixing with oxidizing agents like nitric acid also should be avoided for the safety.

Storage

Dry, cool and dark places with ventilation are recommended. Storage container bags or drums should be tightly sealed to prevent intrusion of impurities and drying. At high temperature, degradation of capacity may occur and below freezing temperature, freezing of resin may occur. The freezing may cause physical breakage leading to low whole bead count.

Disposal

There are two ways to dispose of resins. Unused ones could be discarded by landfill or incineration following local regulations with fore-mentioned cautions. For incineration, furnace equipped with suitable safety measures is necessary because toxins such as SO_x, NO_x, CO_x could be generated. Used ones could be landfilled or incinerated as well but poisonous materials like heavy metals, if they are contained, should be removed before resins be discarded.

Packaging

25L PE Bag / 50L Drum / 1,000L Ton bag

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