

Ion Exchange Resin PristineFlow MB400

Description

PristineFlow MB400 is a specialized ion exchange resin designed for water desalination (distillation) and for reducing its electrical conductivity to a level of 0.1 $\mu\text{S}/\text{cm}$. It is also used for polishing water after the reverse osmosis process and in cases where higher requirements for electrical conductivity are needed. The resin is a mixture of cation and anion exchange resins in a 40/60% ratio, respectively, and cannot be regenerated using traditional methods.

Basic Operating Conditions

Filtration Rate	8 - 40 m/hr
Operating pH Range	0 - 14

Basic Technical

	OH ⁻ Form	H ⁺ Form
Polymer Matrix:	Gel polystyrene crosslinked with DVB	
Functional Group:	-SO ₃ H	
Volume Ratio:	60%	40%
Minimum Exchange Capacity:	1.00 mval/l	1.9 mval/l
Water Retention Capacity:	53-60 %	45-50 %
Particle Size Distribution (>1.25 mm, max.):	5 %	5 %
Particle Size Distribution (<0.40 mm, max.):	2 %	2 %
Minimum Percentage of Whole Beads:	95 %	95 %
Maximum Moisture Content Upon Delivery:	65 %	65 %
pH Range, Stability:	0-14	0-14
Shipping Weight (approx.):	700-750 g/l	700-750 g/l
Operating Temperature:	---	---
Minimum Temperature for Ion Exchange	100°C (max.)	60°C (max.)

Application

PristineFlow MB400 is loaded into the filter housing in the same way as any other resin. A characteristic feature of this mixture is the inability to regenerate it without prior separation of the cation and anion resins. Therefore, in most cases, the resin is replaced after its capacity is exhausted, which can be identified by an increase in electrical conductivity. Regeneration of the resin is only possible using specialized equipment.

Transport and Storage Conditions

Packaging: 25 liters.

Store and transport at temperatures above 0°C, protecting the resin from freezing.

Transported on pallets containing 50 packages each.