



Product Data Sheet

## IMAC™ HP336 Ion Exchange Resin

Weak Acid Cation Exchange Resin

### Description

IMAC™ HP336 Ion Exchange Resin is a weak acid cation exchange resin containing carboxylic groups on an acrylic matrix. It is characterized by a high exchange capacity combined with a smaller volume variation than conventional carboxylic resins.

IMAC HP336 is designed for potable water dealkalization and treatment of waters used in the food industry.

### Typical Physical and Chemical Properties

Matrix	Polyacrylic
Functional Groups	-COO <sup>-</sup>
Physical Form	Opaque beads
Ionic Form as Shipped	H <sup>+</sup>
Total Exchange Capacity <sup>a</sup>	≥ 3.90 eq/L (H <sup>+</sup> form)
Moisture Holding Capacity <sup>a</sup>	54 – 58% (H <sup>+</sup> form)
Specific Gravity	1.17 – 1.18 (H <sup>+</sup> form)
Shipping Weight	700 g/L (43.7 lb/ft <sup>3</sup> )
Particle Size	
Harmonic Mean Size	550 – 750 µm
Uniformity Coefficient	≤ 1.9
Fines Content <sup>a</sup>	< 0.300 mm : ≤ 3.0%
Coarse Beads	> 1.180 mm : ≤ 5.0%
Maximum Reversible Swelling	H <sup>+</sup> → Na <sup>+</sup> : about 60%
Chemical Resistance	Sensitive to oxidants; maximum 0.1 – 0.2 ppm in the inlet water

<sup>a</sup> Contractual value

Note: Test methods are available upon request.

### Suggested Operating Conditions (Water Treatment)

Maximum Bed Depth	700 mm	
Service Flowrate	5 – 40 BV*/h	
Regenerant	HCl	H <sub>2</sub> SO <sub>4</sub>
Concentration (%)	2 – 5	0.5 – 0.8
Level (%)	110	110
Flowrate (BV/h)	2 – 8	2 – 8
Minimum Contact Time (minutes)	30	30
Rinse Requirements	About 10 BV	

\* 1 BV (Bed Volume) = 1 m<sup>3</sup> solution per m<sup>3</sup> resin

## Start-up

IMAC™ HP336 Ion Exchange Resin is ready to use. All that is required at the time of commissioning is a 20-bed volume rinse with the water to be treated. This is valid only if the resin is stored at a temperature of less than 25°C and protected from UV radiation and if the storage time between the production date (printed on the packaging) and use does not exceed 6 months.

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## Note

These resins may be subject to drinking water application restrictions in some countries. Please check the application status before use and sale.

### IMAC™ Ion Exchange Resins Contact Dow Water & Process Solutions:

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**WARNING:** Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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