



## Product Data Sheet

### **AMBERLITE™ FPC336 H Ion Exchange Resin**

Weak Acid Cation Exchange Resin

#### **Description**

AMBERLITE™ FPC336 H 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.

AMBERLITE FPC336 H is designed for potable water dealkalization and treatment of waters used in the food industry.

#### **Typical Properties**

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##### **Physical Properties**

Copolymer	Polyacrylic
Matrix	Macroporous
Type	Weak acid cation
Functional Group	— COOH <sup>-</sup>
Physical Form	Yellow, opaque, spherical beads

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##### **Chemical Properties**

Ionic Form as Shipped	H <sup>+</sup>
Total Exchange Capacity	≥ 3.90 eq/L
Water Retention Capacity	54 – 58%

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##### **Particle Size** §

Particle Diameter	550 – 750 µm
Uniformity Coefficient	≤ 1.9
< 300 µm	≤ 3.0%
> 1180 µm	≤ 5.0%

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##### **Stability**

Swelling	H <sup>+</sup> → Na <sup>+</sup> : ~ 60%
Chemical Resistance	Sensitive to oxidants; maximum 0.1 – 0.2 ppm in the inlet water

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##### **Density**

Particle Density	1.17 – 1.18 g/mL
Shipping Weight	700 g/L

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§ For additional particle size information, please refer to the [Particle Size Distribution Cross Reference Chart](#) (Form No. 177-01775).

## Suggested Operating Conditions

Bed depth, max.	700 mm (2.3 ft)	
Flowrates		
Service	5 – 40 BV*/h	
Regeneration		
HCl	2 – 8 BV/h	
H <sub>2</sub> SO <sub>4</sub>	2 – 8 BV/h	
Contact Time		
Regeneration	≥ 30 minutes	
Rinse Requirements	~ 10 BV	
Regenerant	HCl	H <sub>2</sub> SO <sub>4</sub>
Concentration	2 – 5%	0.5 – 0.8%
Level	110%	110%

\* 1 BV (Bed Volume) = 1 m<sup>3</sup> solution per m<sup>3</sup> resin or 7.5 gal solution per ft<sup>3</sup> resin

## Start-up

AMBERLITE™ FPC336 H 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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Please be aware of the following:

- **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.

**Have a question? Contact us at:**

[www.dupont.com/water/contact-us](http://www.dupont.com/water/contact-us)

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