



# AMBERJET® 1200 H

Industrial Grade Strong Acid Cation Exchanger

## PRODUCT DATA SHEET

AMBERJET 1200 H is a uniform particle size, high quality, strong acid cation exchanger designed for use in all general demineralisation systems.

The uniformity and mean particle size of AMBERJET 1200 H have been optimised for use

in industrial demineralisation equipment including mixed beds when paired with AMBERJET 4200 Cl. AMBERJET 1200 H can be directly substituted for conventional gel cation exchange resin in new equipment and in rebeds of existing installations.

## PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	-SO <sub>3</sub> -
Physical form _____	Insoluble, amber beads
Ionic form as shipped _____	H <sup>+</sup>
Total exchange capacity <sup>[1]</sup> _____	≥ 1.8 eq/L (H <sup>+</sup> form) - ≥ 2.0 eq/L (Na <sup>+</sup> form)
Moisture holding capacity <sup>[1]</sup> _____	49 to 55 % (H <sup>+</sup> form)
Shipping weight _____	800 g/L
Specific gravity _____	1.18 to 1.22 (H <sup>+</sup> form)
Uniformity coefficient <sup>[1]</sup> _____	≤ 1.2
Harmonic mean size _____	630 ± 50 µm
Fines content <sup>[1]</sup> _____	< 0.300 mm : 0.1 % max
Coarse beads _____	> 0.850 mm : 10 % max
Maximum reversible swelling _____	Na <sup>+</sup> → H <sup>+</sup> : 10 %

<sup>[1]</sup> Contractual value

Test methods are available on request.

## SUGGESTED OPERATING CONDITIONS

Minimum bed depth _____	800 mm
Service flow rate _____	5 to 50 BV*/h
Maximum service velocity _____	60 m/h
Regenerant _____	HCl          H <sub>2</sub> SO <sub>4</sub>
Level _____	40 to 150    40 to 200
Concentration _____	4 to 10      1 to 8
Flow rate _____	2 to 5        2 to 20
Minimum contact time _____	20 minutes
Slow rinse _____	2 BV at regeneration flow rate
Fast rinse _____	1 to 3 BV at service flow rate

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

