



# AMBERJET® 1200 Na

Industrial Grade Strong Acid Cation Exchanger

## PRODUCT DATA SHEET

AMBERJET 1200 Na is a uniform particle size, high quality, strong acid cation exchanger designed for use in all water treatment applications: softening as well as demineralisation. The uniformity and mean particle size of AMBERJET 1200 Na have been optimised for

use in industrial equipment. In H<sup>+</sup> cycle, it can be used in mixed bed applications paired with AMBERJET 4200 Cl. AMBERJET 1200 Na 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> <sup>-</sup>
Physical form _____	Insoluble, amber beads
Ionic form as shipped _____	Na <sup>+</sup>
Total exchange capacity <sup>[1]</sup> _____	≥ 2.0 eq/L (Na <sup>+</sup> form)
Moisture holding capacity <sup>[1]</sup> _____	43 to 47 % (Na <sup>+</sup> form)
Shipping weight _____	850 g/L
Specific gravity _____	1.26 to 1.30 (Na <sup>+</sup> form)
Uniformity coefficient <sup>[1]</sup> _____	≤ 1.2
Harmonic mean size _____	620 ± 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 _____	NaCl      HCl      H <sub>2</sub> SO <sub>4</sub>
Level _____	50 to 240    40 to 150    40 to 200
Concentration _____	10          4 to 10      1 to 8
Flow rate _____	2 to 8      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

