



AMBERJET® 4200 CI

Industrial Grade Strong Base Anion Exchanger

PRODUCT DATA SHEET

AMBERJET 4200 CI is a uniform particle size, high quality, strong base type 1 anion exchanger designed for use in all general demineralisation systems. The uniformity and mean particle size of AMBERJET 4200 CI have been optimised for use in industrial equipment including mixed

beds, when paired with AMBERJET 1200 H or AMBERJET 1200 Na. AMBERJET 4200 CI can be directly substituted for conventional gel anion exchange resin in new equipment and in rebeds of existing demineralisers.

PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	$-N^+(CH_3)_3$
Physical form _____	Insoluble, yellow transparent beads
Ionic form as shipped _____	Cl ⁻
Total exchange capacity ^[1] _____	≥ 1.30 eq/L (Cl ⁻ form)
Moisture holding capacity ^[1] _____	49 to 55 % (Cl ⁻ form)
Specific gravity _____	1.06 to 1.08 (Cl ⁻ form)
Shipping weight _____	670 g/L
Particle size _____	
Uniformity coefficient ^[1] _____	≤ 1.25
Harmonic mean size _____	600 to 800 μm
Fine contents ^[1] _____	< 0.425 mm : 0.5 % max
Coarse beads _____	> 0.850 mm : 5.0 % max
Maximum reversible swelling _____	Cl ⁻ → OH ⁻ : about 30 %

^[1] 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 linear velocity _____	60 m/h
Regenerant _____	NaOH
Level _____	40 to 100 g/L
Concentration _____	2 to 5 %
Flow rate _____	2 to 8 BV*/h
Minimum contact time _____	20 minutes
Slow rinse _____	2 BV at regeneration flow rate
Fast rinse _____	3 to 6 BV at service flow rate

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

