AMBERJET® 4600 Cl

Industrial Grade Strong Base Anion Exchanger

PRODUCT DATA SHEET

AMBERJET 4600 Cl is a uniform particle size, high quality, strong base type 2 anion exchanger designed for use in all general demineralisation systems. The uniformity and mean particle size of AMBERJET 4600 Cl have been optimised for use in industrial equipment including co-flow, reverse flow regenerated units and packed bed systems.
It 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	$-N^+(CH_3)_2CH_2CH_2OH$
Physical form	Insoluble, yellow transparent beads
Ionic form as shipped	Cl^-
Total exchange capacity [1]	≥ 1.25 eq / L (Cl^- form)
Moisture holding capacity [1]	45 to 51 % (Cl^- form)
Specific gravity	1.085 to 1.115 (Cl^- form)
Shipping weight	680 g / L
Harmonic mean size	600 to 800 µm
Uniformity coefficient [1]	≤ 1.25
Fines content [1]	< 0.425 mm : 0.5 % max
Coarse beads	> 0,850 mm : 10,0 % max
Maximum reversible swelling	$Cl^- \rightarrow OH^-$: 20 %

[1] *Contractual value*

Test methods available upon request

SUGGESTED OPERATING CONDITIONS

Minimum bed depth	800 mm
Service flow rate	5 to 50 BV / h
Maximum service velocity	60 m / h
Regenerants	NaOH
Level	30 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 m^3 solution per m^3 resin*