



AMBERLITE® 252 Na

Industrial Grade Strong Acid Cation Exchanger

PRODUCT DATA SHEET

AMBERLITE 252 Na is a macroporous cation exchange resin based on sulphonated cross-linked polystyrene. It has a moderate degree of crosslinking resulting in good regeneration efficiency. It is very resistant to osmotic shock and to mechanical attrition. AMBERLITE 252 Na has a reduced amount of fines, allowing it to

be used for the treatment of highly concentrated solutions. AMBERLITE 252 Na is suited for use in a variety of demanding applications such as condensate treatment, decalcification and demineralisation of sugar juices and treatment of oxidising solutions.

PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	-SO ₃ ⁻
Physical form _____	Light grey beads
Ionic form as shipped _____	Na ⁺
Total exchange capacity ^[1] _____	≥ 1.8 eq/L (Na ⁺ form)
Moisture holding capacity ^[1] _____	47 - 54 % (Na ⁺ form)
Shipping weight _____	810 g/L
Specific gravity _____	1.20 to 1.24 (Na ⁺ form)
Particle size _____	
Uniformity coefficient _____	≤ 1.8
Harmonic mean size _____	590 - 840 μm
Fine contents ^[1] _____	< 0.300 mm : 1.0 % max
Coarse beads _____	> 1.180 mm : 5.0 % max

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Minimum bed depth _____	700 mm
Service flow rate _____	5 to 40 BV*/h (sugar) 5 to 170 BV/h or 5 to 120 m/h (water)
Regenerant _____	NaCl HCl H ₂ SO ₄
Flow rate (BV/h) _____	2 to 8 4 to 6 4 to 12
Concentration (%) _____	10 4 to 10 1 to 5
Level (g/L) _____	80 to 400 45 to 150 50 to 200
Minimum contact time _____	30 minutes
Slow rinse _____	2 BV at regeneration flow rate
Fast rinse _____	2 to 4 BV at service flow rate

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

