



DUOLITE® C467

Industrial Grade Chelating Resin

PRODUCT DATA SHEET

DUOLITE C467 is a resin of macroporous structure. Its polystyrenic matrix, crosslinked with DVB, contains aminophosphonic groups. The chemical nature of these groups is such that they form complexes with metal ions.

DUOLITE C467 may be distinguished from aminodiacetic resins by its greater specificity for various cations and by the greater stability of the complexes formed with cations of low atomic mass.

PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	-CH ₂ -NH-CH ₂ -PO ₃ Na ₂
Physical form _____	Beige beads
Ionic form as shipped _____	Na ⁺
Total exchange capacity ^[1] _____	≥ 1.0 eq/L (Na ⁺ form)
Moisture holding capacity ^[1] _____	65 to 70 % (Na ⁺ form)
Specific gravity _____	1.10 to 1.14 (Na ⁺ form)
Shipping weight _____	740 g/L
Particle size _____	
Harmonic mean size _____	500 - 700 µm
Uniformity coefficient _____	≤ 1.8
Fines content ^[1] _____	< 0.355 mm : 2.0 % max
Coarse beads _____	> 1.000 mm ; 5.0 % max
Maximum reversible swelling _____	H ⁺ → Na ⁺ : 35 %

^[1] Contractual value

Test methods available upon request

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature _____	80°C
Minimum bed depth _____	700 mm
Service flow rate _____	10 to 40 BV/h (depending on applications)
Regeneration _____	HCl (1N to 2N)
Conversion to Na ⁺ form _____	NaOH (1N to 2N)
Operating pH _____	Function of applications

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

