



Product Information

# AMBERJET\* 1200 D

A Uniform Particle Size, High Capacity Strong Acid Cation Exchange Resin for Industrial Water Treatment Applications

Product			
AMBERJET* 1200 D	Strong acid cation	Styrene-DVB gel	Sulfonic Acid

Typical Physical and Chemical Properties		Na <sup>+</sup> form	H <sup>+</sup> form
Total exchange capacity, min.	eq/l	2.0	1.8
	kgr/ft <sup>3</sup> as CaCO <sub>3</sub>	43.7	39.3
Water content	%	42 – 48	50 - 56
Uniformity coefficient, max.		1.1	1.1
Mean Particle Size	µm	540 - 640	550 -650
Whole uncracked beads, min.	%	95	95
Total Swelling (Na <sup>+</sup> --> H <sup>+</sup> )	%	8	8
Particle density	g/ml	1.28	1.20
Shipping weight	g/l	820	800
	lbs/ft <sup>3</sup>	51	50

Recommended Operating Conditions	
Maximum operating temperature:	120°C (250°F)
pH range	0-14
Bed depth, min.	800 mm (2.6 ft)
Flow rates:	
Service/fast rinse	5-60 m/h (2-24 gpm/ft <sup>2</sup> )
Co-current regeneration/displacement rinse	1-10 m/h (0.4-4 gpm/ft <sup>2</sup> )
Counter-current regeneration/displacement rinse	5-20 m/h (2-8 gpm/ft <sup>2</sup> )
Total rinse requirement	2-5 Bed Volumes
Regenerant	1 - 8% H <sub>2</sub> SO <sub>4</sub> , 4 - 8% HCl or 8 - 12% NaCl

**Warning:** Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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