



AMBERJET® 4400 OH

Industrial Grade Strong Base Anion Exchanger

PRODUCT DATA SHEET

AMBERJET 4400 OH is a uniform particle size, strongly basic anion exchange resin of the type 1 with a clear gel structure, based on crosslinked polystyrene. AMBERJET 4400 has a higher capacity and lower moisture holding capacity than AMBERJET 4200. Due to a new manufacturing technology, AMBERJET 4400 OH has an excellent rinse performance and an

outstanding physical stability, illustrated by its very high bead integrity and its resistance to osmotic shock and mechanical stress. The resin is delivered in the fully regenerated OH⁻ form, and makes it particularly suitable for use in applications where initial regeneration is not feasible or not desired.

PROPERTIES

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| Matrix _____ | Styrene divinylbenzene copolymer |
| Functional groups _____ | -N ⁺ (CH ₃) ₃ |
| Physical form _____ | Insoluble light amber beads |
| Ionic form as shipped _____ | OH ⁻ |
| Total exchange capacity ^[1] _____ | ≥ 1.10 eq/L (OH ⁻ form) |
| Moisture holding capacity ^[1] _____ | 54 to 60 % (OH ⁻ form) |
| Specific gravity _____ | 1.06 to 1.10 (OH ⁻ form) |
| Shipping weight _____ | 690 g/L |
| Particle size _____ | |
| Uniformity coefficient ^[1] _____ | ≤ 1.20 |
| Harmonic mean size _____ | 580 to 680 μm |
| Fine contents ^[1] _____ | < 0.425 mm : 0.5 % max |
| Coarse beads _____ | > 1.180 mm : 2.0 % max |
| Chemical resistance _____ | Insoluble in dilute solutions of acids or bases and common solvents |

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

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|-------------------------------------|--------------------------------|
| Maximum operating temperature _____ | 60°C |
| Minimum bed depth _____ | 800 mm |
| Service flow rate _____ | 5 to 50 BV*/h |
| Maximum service velocity _____ | 60 m/h |
| Regenerant flow rate _____ | 2 to 8 BV/h |
| Regenerant concentration _____ | 2 to 5 % NaOH |
| Regenerant level _____ | 40 to 100 g/L |
| 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

