AMBERSEP 200 H^+ ION EXCHANGE RESIN

02/24

G-AMBH

Ambersep 200 H is a strong acid, cation exchange resin based on sulphonic acid exchange groups on a polystyrene matrix. Its high degree of crosslinking gives stability to the structure of the resin resulting in higher resistance to chemical oxidation and to degradation by mechanical, thermal or osmotic shocks than other comparable cation exchange resins.

PROPERTIES:

Matrix:	Styrene divinylbenzene copolymer
Functional group:	Sulphonic acid (SO_3^-)
Physical form:	Beige coloured beads
Ionic form:	H^+
Total exchange capacity:	≥ 1.6 meq/mL (H^+)
Moisture capacity:	50 - 57% (H^+)
Shipping weight:	770 g/L
Harmonic mean size:	0.82 to 1.00 mm
Fines:	< 0.60 mm 1.0% max
Oversize:	> 1.18 mm 15% max
Reversible swelling (max):	$Na^+ \rightarrow H^+$ 6%

SUGGESTED OPERATING CONDITIONS:

Max. temperature:	135°C	
Working flow rate:	10 - 120 Bed Volumes per hour (BV/h)	
Regenerant:	HCl	H_2SO_4
Concentration (%):	5 - 6	1.5 - 4
Regenerant level (g/L):	80 - 200	125 - 250
Regeneration flow rate:	4 - 5 (BV/h)	4 - 12 (BV/h)
Minimum contact time:	30 min	
Slow rinse:	2 BV at regeneration flow rate	
Fast rinse:	2 - 4 BV at working flow rate	