AMBERLITE™ FPA53 OH

G-AMBOH **04/12**

AMBERLITE™ FPA53 is an acrylic, weakly basic anion exchange resin containing tertiary amine functionality on a gel type acrylic matrix with no strongly basic functional sites. The acrylic polymer matrix is extremely flexible giving greater physical stability and organic fouling resistance to conventional polystyrene based resins. Less breakdown and less fouling leads to longer life in the application. Being a gel type resin AMBERLITE™ FPA53 has a higher capacity and is more durable than macroporous type resins.

PROPERTIES:

Matrix:	Crosslinked acrylic gel
Functional group:	Tertiary amines
Physical form:	Transparent white beads
Ionic form:	-OH
Total exchange capacity:	≥ 1.6 meq/mL (-OH)
Moisture capacity:	56 – 64%
Shipping weight:	700 g/L
Harmonic mean size:	0.50 to 0.75 mm
Fines:	< 0.30 mm 3.0% max
Max reversible swelling:	-OH → Cl- 30%

SUGGESTED OPERATING CONDITIONS:

Max. temperature:	50°C		
Working flow rate:	4 – 8 Bed Volumes per hour (BV/h)		
Regenerant:	NaOH	Na_2CO_3	NH_4
Concentration (%):	2 – 4	5 - 8	1 - 4
Regenerant level:	130% of ionic load		
Regeneration flow rate:	2 – 8 (BV/h)	2 - 4 (BV/h)	2 - 4 (BV/h)
Minimum contact time:	30 min		
Slow rinse:	2 BV at regeneration flow rate		
Fast rinse:	8 – 16 BV at working flow rate		