ROHM HAAS 🔼 | Beverages and Nutrition

PRODUCT DATA SHEET

AMBERLITE™ FPA42 CI

Food Grade Strong Base Anion Exchanger

For Demineralisation and Deashing

FOOD PROCESSING

AMBERLITE FPA42 Cl is intended for those applications where a high volume capacity strong base resin can be used for general demineralisation and deashing where the risk of fouling from coloured bodies and organics is relatively low.

AMBERLITE FPA42 Cl is a uniform particle size, high quality, strong base type 1 anion exchanger.

The uniformity and mean particle size of AMBERLITE FPA42 Cl have been optimised for use in equipment including mixed beds.

AMBERLITE FPA42 Cl can be directly substituted for conventional gel anion exchange resin in new equipment and in rebeds of existing demineralisers.

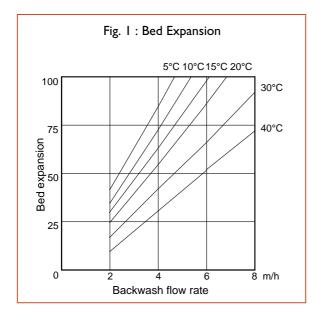
Matrix	Styrene divinylbenzene copolymer
Functional groups	N ⁺ (CH ₃) ₃
Physical form	Insoluble, yellow transparent beads
Ionic form as shipped	Cl ⁻
Total exchange capacity [1]	≥ 1.30 eq/L (Cl ⁻ form)
Moisture holding capacity [1]	49 to 55 % (Cl ⁻ form)
Specific gravity	1.06 to 1.08 (Cl ⁻ form)
Shipping weight	
Particle size	-
Uniformity coefficient [1]	
Harmonic mean size	600 to 800 μm
Fine contents [1]	< 0.425 mm : 0.5 % max
Coarse beads	> 0.850 mm : 5.0 % max
Maximum reversible swelling	$Cl^- \rightarrow OH^-$: about 30 %
[1] Contractual value	
Test methods are available on request.	
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SUGGESTED OPERATING CONDITIONS	3
Minimum bed depth	800 mm
Minimum bed depthService flow rate	
Service flow rate	5 to 50 BV/h
Service flow rate Maximum linear velocity	5 to 50 BV/h 60 m/h
Service flow rate	5 to 50 BV/h 60 m/h NaOH
Service flow rate	5 to 50 BV/h 60 m/h NaOH 40 to 100 g/L
Service flow rate	5 to 50 BV/h 60 m/h NaOH 40 to 100 g/L 2 to 5 %
Service flow rate	5 to 50 BV/h 60 m/h NaOH 40 to 100 g/L 2 to 5 % 2 to 8 BV*/h
Service flow rate	5 to 50 BV/h 60 m/h NaOH 40 to 100 g/L 2 to 5 % 2 to 8 BV*/h 20 minutes

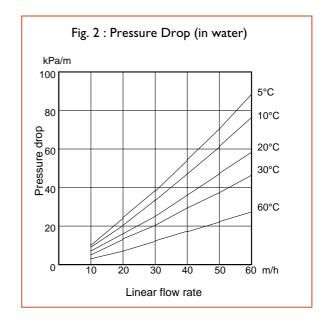
FOOD PROCESSING

As governmental regulations vary by country, it is recommended that potential users seek advice from their Amberlite representative in order to determine the best resin choice, optimum operating and regeneration conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the bed expansion of AMBERLITE FPA42 Cl as a function of backwash flow rate and water temperature. Figure 2 shows the pressure drop data for AMBERLITE FPA42 Cl, as a function of service flow rate and water temperature. Pressure drop data are valid at the start of the service run with a clear water and a correctly classified bed.





All our products are produced in ISO 9001 certified manufacturing facilities.

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Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with Ion Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.

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