

PRODUCT DATA SHEET

**AMBERLITE™ FPX66**

Food Grade Adsorbent Resin

**For Juice Upgrading and Improved Decolourisation**

AMBERLITE FPX66 is a macroreticular, non-functionalised adsorbent resin designed for the juice processing market where local regulations allow for such use.

AMBERLITE FPX66 can also be used for a wide variety of food processing applications to both

recover high value materials and to purify and decolourise food and food additive streams.

AMBERLITE FPX66 has excellent physical resistance and thermal stability making it ideal for use in column based systems over a large number of process cycles.

**PROPERTIES**

Physical form _____	White beads
Matrix _____	Macroreticular aromatic Polymer
Moisture holding capacity <sup>(1)</sup> _____	60 to 68 %
Shipping weight _____	680 g/L
Specific gravity _____	1.015 to 1.025
Particle size	
Uniformity coefficient <sup>(1)</sup> _____	≤ 2.0
Harmonic mean size <sup>(1)</sup> _____	0.600 - 0.750 mm
Fine content <sup>(1)</sup> _____	< 0.300 mm : 3.0 % max
Coarse beads <sup>(1)</sup> _____	> 1.180 mm : 5.0 % max
Surface area <sup>(2)</sup> _____	≥ 700 m <sup>2</sup> /g
Porosity <sup>(2)</sup> _____	≥ 1.4 cc/g
DVB content <sup>(1)</sup> _____	< 50 ppb

<sup>(1)</sup> Contractual values

<sup>(2)</sup> Values based on statistical control

*Test methods available upon request*

**SUGGESTED OPERATING CONDITIONS**

pH range _____	0 - 14
Maximum operating temperature _____	150°C
Minimum bed depth _____	700 mm
Flow rate	
Loading step usually _____	2 to 16 BV*/h
Washing step _____	1 to 2 BV/h
Regeneration step _____	1 to 2 BV/h
Rinse step _____	2 to 16 BV/h
Regenerants	Methanol or other water miscible organic solvents (ethanol, acetone, isopropanol, etc.) Dilute bases and/or dilute acids Hot water or steam for volatile materials

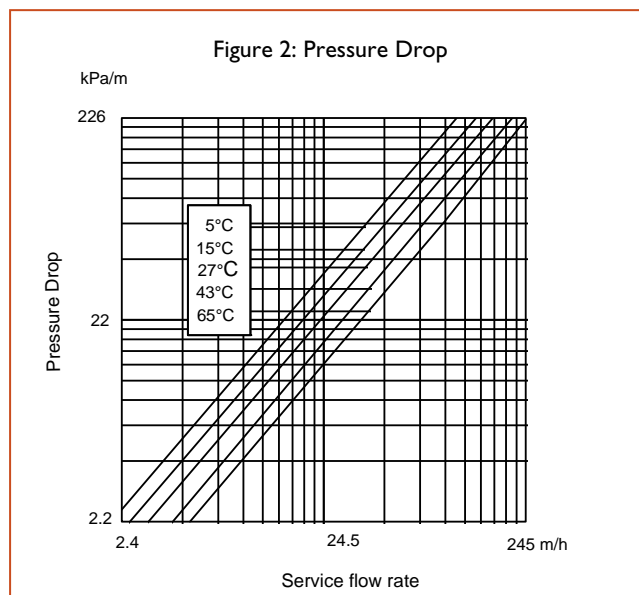
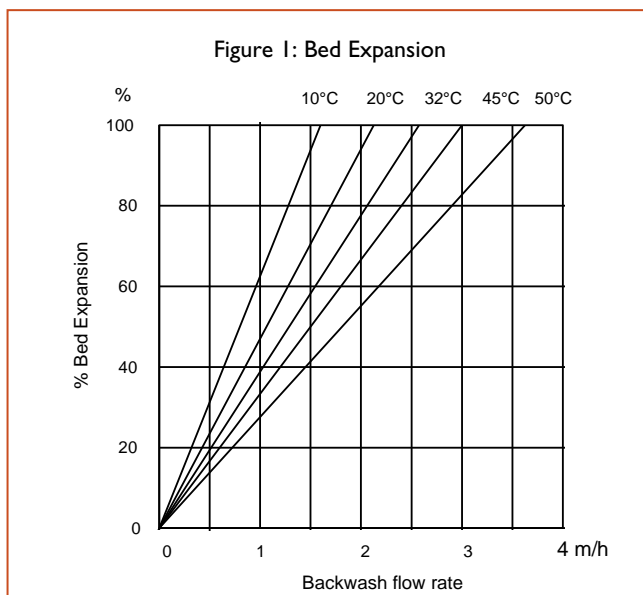
\* 1 BV (Bed Volume) = 1 m<sup>3</sup> solution per m<sup>3</sup> resin

## 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 FPX66 as a function of backwash flow rate and water temperature. Figure 2 shows the pressure drop data for AMBERLITE FPX66 as a function of service flow rate. 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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