



AMBERLITE™ FPX66

Food Grade Adsorbent Resin

Introduction

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

(1) Contractual values

(2) Values based on statistical control

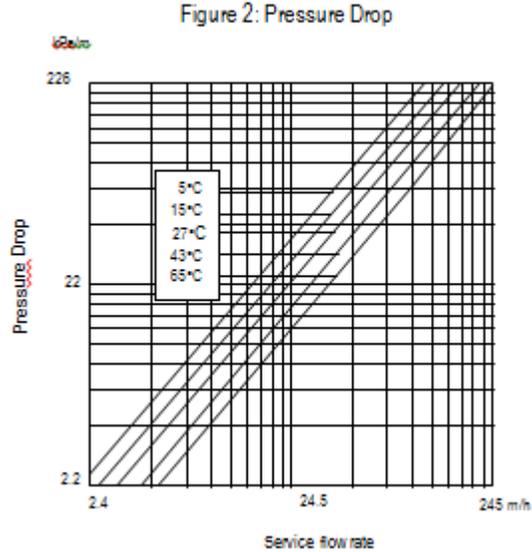
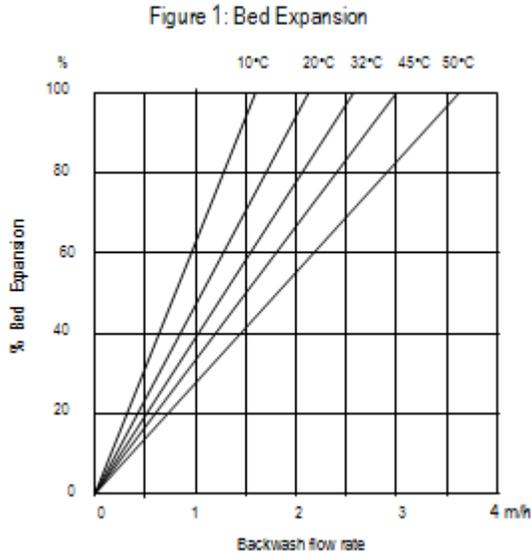
Suggested Operating Conditions

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	2 to 8 BV/h
Regeneration step	2 to 4 %
Rinse step	40 to 100 g/L _R
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

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.



For more information about DOW™ resins, call the Dow Water & Process Solutions business:

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