

Lewatit[®] MP 600 WS

Lewatit MP 600 WS is a strongly basic, macroporous-type II, anion exchange resin of controlled particle size based on a styrene-divinylbenzene copolymer. The resin beads are chemically and osmotically highly stable. The macroporous structure and optimized kinetics lead to an increased operating capacity compared to anion exchange resins with standard bead size distribution.

Lewatit MP 600 WS applications*:

demineralization, packed bed

Typical physical and chemical properties**

		US Units		International Units	
Ionic form as shipped			Cl ⁻		Cl ⁻
Mean bead size	> 90%	mm	0.5 +- 0.05	mm	0.55 +- 0.05
Bead size	min. 90%	US mesh	12 - 37	mm	0.4 - 1.25
Shipping weight		lbs/ft ³	45	g/l	720
Density				g/ml	1.1
Water retention		% weight	50 - 55	%	50 - 55
Total capacity, min.		kgr CaCO ₃ / ft ³	25	eq/l	1.15
Volume change	Cl ⁻ >> OH ⁻	max. %	12	max. %	12
Stability	temperature range	°F	34 - 160	°C	1 - 70
	pH range		0 - 14		0 - 14
Storability	of product	min years	2	min. years	2
	temperature range	°F	-4 - 104	°C	-20 - 40

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Lewatit MP 600 WS. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your Sybron Chemicals Inc. representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

*As with any product, use of the products mentioned in this publication in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

**These items are provided as general information only. They are approximate values and are not part of the product specifications.

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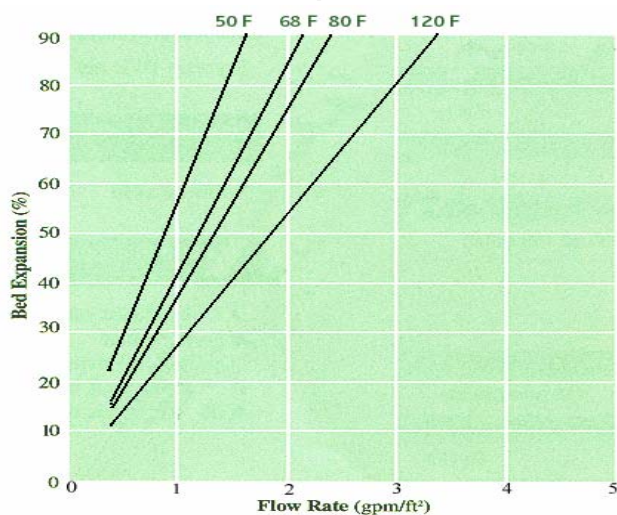
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Lewatit® MP 600 WS

Recommended Operating Parameters

		US Units		International Units	
Operating Temperature		max. °F	86	max. °C	30
Operating pH-range			0 - 11		0 - 11
Bed Depths		min. ft	2.6	min. mm	800
Pressure Drop			see chart		see chart
Max. adm. Pressure drop		psi	36	kPa	250
Surface Flow Rate	exhaustion	gpm/ft ²	2 - 20	m/h	5 - 50
	backwash	gpm/ft ²	see chart	m/h	see chart
Bulk Flow Rate	exhaustion	gpm/ft ³	1 - 6	BV/h	8 - 48
Bed Expansion		%	see chart	%	see chart
Freeboard	% of bed depth	%	75 - 100	%	75 - 100
Regenerant	type		NaOH		NaOH
	level	lb/ft ³	2 - 6	g/l	32 - 96
	concentration	%	2 - 4	%	2 - 4
Surface Flow Rate	regeneration	gpm/ft ²	0.4 - 4	m/h	1 - 10
	rinsing, slow / fast	gpm/ft ²	0.4 - 4 / 2 - 25	m/h	1 - 10 / 5 - 60
Bulk Flow Rate	regeneration	gpm/ft ³	0.25 - 1	BV/h	2 - 8
	rinsing, slow / fast	gpm/ft ³	0.25 - 1 / 1 - 6	BV/h	2.5 - 32 / 8 - 48
Rinsing Water Requirement	slow / fast	gals./ft ³	7 - 15 / 25 - 50	BV	1 - 2 / 3 - 7

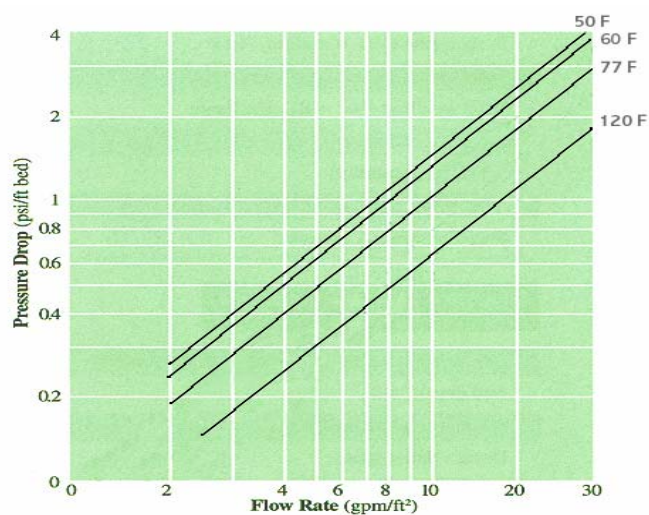
Bed Expansion Curve



$$^{\circ}\text{C} = 5 / 9 (^{\circ}\text{F} - 32)$$

$$\text{m} = \text{ft} * 0.3048$$

Pressure Loss Curve



$$\text{kPa} = \text{psi} * 7.03$$

$$\text{m} / \text{hr} = \text{gpm} / \text{sq.ft.} * 2.44$$

Note: The information contained in this bulletin is current as of April 2003. Please contact Sybron Chemicals Inc. to determine whether this publication has been revised.

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