



Lewatit MonoPlus™ MP 500

Lewatit MonoPlus MP 500 is a strongly basic, macroporous-type anion exchange resin of uniform particle size (monodispersed) based on a styrene-divinylbenzene copolymer. The monodispersed resin beads are chemically and osmotically highly stable. The optimized kinetics lead to an increased operating capacity compared to ion exchange resins with heterodispersed bead size distribution.

Lewatit MonoPlus MP 500 applications*:

organic scavenger, demineralization, mixed bed / condensate polishing

Typical physical and chemical properties**

		US Units		International Units	
Ionic form as shipped			Cl ⁻		Cl ⁻
Mean bead size	> 90%	mm	0.63 +- 0.05	mm	0.63 +- 0.05
Uniformity coefficient		max.	1.1	max.	1.1
Shipping weight		lbs/ft ³	42	g/l	670
Density				g/l	1.06
Water retention		% weight	61 - 63	%	61 - 63
Total capacity, min.		kgr CaCO ₃ / ft ³	24	eq/l	1.1
Volume change	Cl ⁻ >> OH ⁻	max. %	22	max. %	22
Stability	temperature range	°F	34 - 212	°C	1 - 100
	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 MonoPlus MP 500. 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 form 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.

Contact Us:

Sybron Chemicals Inc.
A Bayer Company
Birmingham Road
Birmingham, NJ 08011
Phone: 1-800-678-0020
Fax: 609-894-8641

www.ionexchange.com

Contact Us:

Sybron Chemicals Inc.
A Bayer Company
100 Bayer Road
Pittsburgh, PA 15205
Phone: 1-800-662-2927
Fax: 412-777-4109

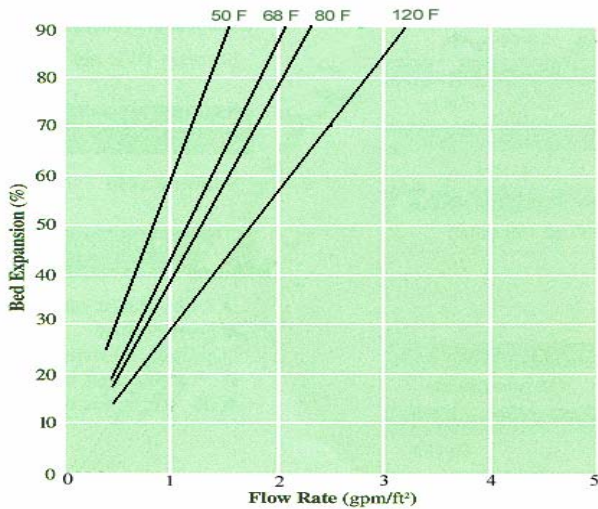
www.ionexchange.com

Lewatit MonoPlus™ MP 500

Recommended Operating Parameters

		US Units		International Units	
Operating Temperature		max. °F	158	max. °C	70
Operating pH-range			0 - 12		0 - 12
Bed Depths		min. ft	2.6	min. mm	800
Pressure Drop			see chart		see chart
Max. adm. Pressure drop		psi	43	kPa	300
Surface Flow Rate	exhaustion	gpm/ft ²	2 - 25	m/h	5 - 60
	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	3 - 7	g/l	48 - 115
	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

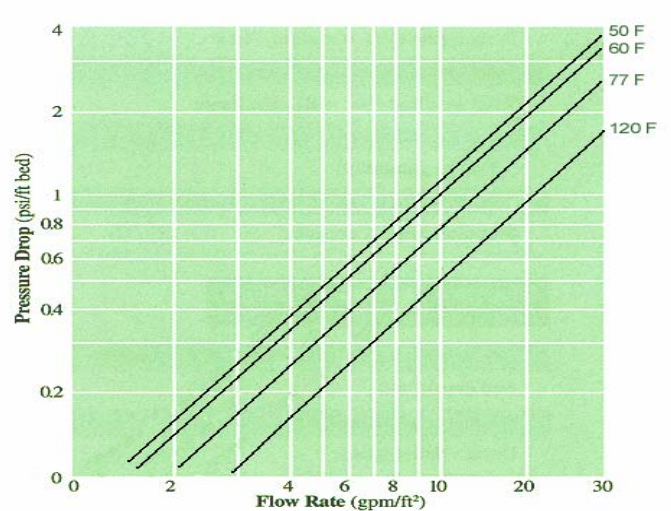
Bed Expansion Curve



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

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

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.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.