

Product Data Sheet

DIAION™ WT01S

DIAION™ WT01S is a small particle methacrylic-type weakly acidic cation exchange resin. It has carboxylic acid functionality, and has higher adsorption capacity and reaction rate. A wide range of applications, especially in a field of purification of pharmaceuticals, foods and organic chemicals, is recommended.

Product

Grade Name	DIAION™ WT01S	
Type	Weak Acid Cation	
Matrix	Methacrylic, Porous	
Functional Group	Carboxylic Acid	
Ionic Form	H ⁺	

Specification

Whole Bead Count	-	95 min.
Total Capacity	meq/mL	3.0 min.
Water Content	%	45 - 55
Effective Size	mm	0.10 - 0.14
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	760
Mean Particle Size	μm	160
Particle Density	g/mL	1.14
Total Swelling (H ⁺ to Na ⁺)	%	72

Recommended Operating Conditions

Maximum Operating Temperature	°C	150
Operating pH Range		5 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	5 - 40
Regenerant		HCl
Regenerant Concentration	%	HCl 1 - 5
Regenerant Level	% of ionic load	110
Regenerant Flow Rate	BV/h	2 - 6
Total Rinse Requirement	BV	10 - 20

1 BV(Bed Volume)=1 m³/m³-resin



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WT01S resin in normal down flow operation is shown in the graphs below.

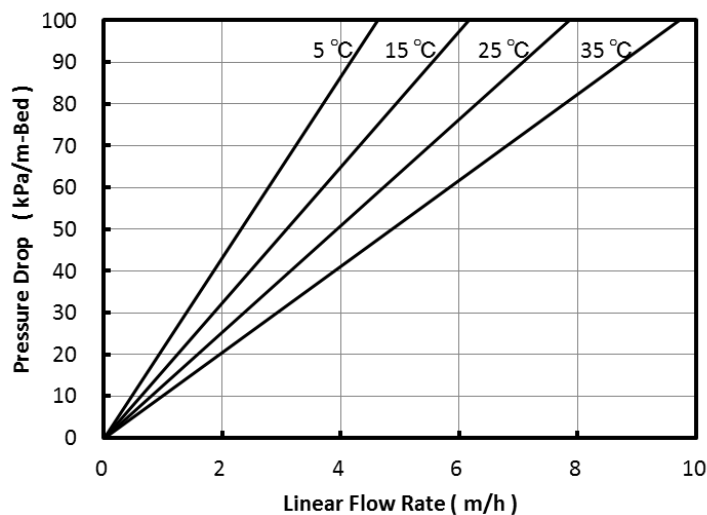


Fig. 1 Pressure Drop of WT01S

Notice

DIAION™ is a registered trademark of Mitsubishi Chemical Corporation. The information contained herein is believed to be true and accurate, but all data, recommendations and suggestions are provided without guarantee, since the conditions of use are beyond our control and can affect the performance and properties of our products. The user is solely responsible for confirming that our product is suitable for the intended end use, and for compliance with all legal regulations and patents. Other than compliance with published Mitsubishi Chemical Corporation specifications agreed to pursuant to a signed writing during the warranty period, and except as required by law, MITSUBISHI CHEMICAL CORPORATION AND ITS AFFILIATES MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If a product is found to be defective during the warranty period, user's sole remedy and our sole obligation is, at our option, replacement of the affected product or refund of the purchase price. Except as required by law, we are not liable for any damage, harm or loss resulting from our product, whether direct, indirect, consequential, incidental or special, and irrespective of legal theory asserted, including strict liability, contract, warranty, or negligence.