

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	m/h	5 - 40
Regenerant		HCl
Regenerant Concentration	%	HCl 1 - 5
Regenerant Level	% of ionic load	110
Regenerant Flow Rate	m/h	2 - 6
Total Rinse Requirement	BV	10 - 20



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.

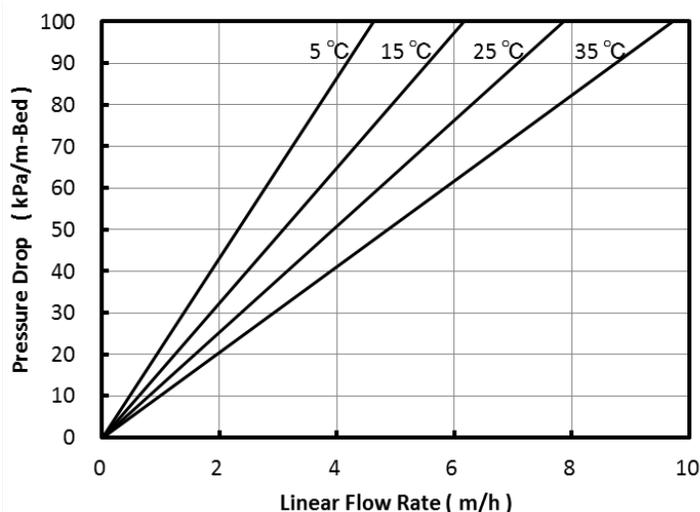


Fig. 1 Pressure Drop of WT01S

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