DIAION™ WK11

DIAION™ WK11 is a methacrylic-type weakly acidic cation exchange resin. It is a higher capacity grade than DIAION™ WK10. A wide range of applications, especially in a field of purification of pharmaceuticals, foods and organic chemicals, is recommended.

Product		
Grade Name		DIAION TM WK11
Туре		Weak Acid Cation
Matrix		Methacrylic, Porous
Functional Group		Carboxylic Acid
Ionic Form		H ⁺
Specification		
Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.9 min.
Water Content	%	45 - 52
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	670
Mean Particle Size	μm	620
Particle Density	g/mL	1.14
Total Swelling (H ⁺ to Na ⁺)	%	63
Recommended Operating Condit	ions	
Maximum Operating Temperature	°C	150
Operating pH Range		5 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	5 - 40
Regenerant		HCI
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 DIAIONTM WK11 resin in normal down flow operation is shown in the graphs below.

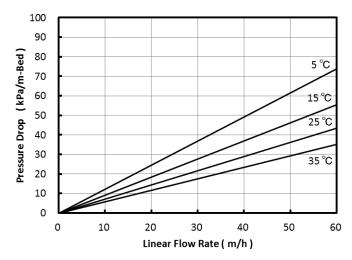


Fig. 1 Pressure Drop of WK11

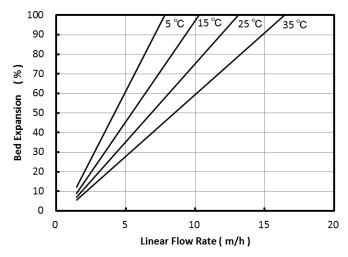


Fig. 2 Bed Expansion of WK11

Notice

DIAIONTM 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 AFFLIATES 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.