## **DIAION™ UBK10HUP**

DIAION™ UBK10HUP is a cation exchange resin with a uniform particle size. It has 10% cross-linkages and excellent properties. It is recommended for higher purity water treatment application.

Product		
Grade Name		DIAION <sup>™</sup> UBK10HUP
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Gel
Functional Group		Sulfonic acid
Ionic Form		H <sup>⁺</sup>
Specification		
Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	1.9 min.
Water Content	%	45 - 51
Mean Particle Size	μm	660 ± 50
Uniformity Coefficient	-	1.10 max.
Ionic Form Conversion (H <sup>+</sup> )	eq%	99.9 min.
ΔΤΟC	ppb	20 max.
Outlet Resistivity	MΩ·cm	12 min.
Typical Properties		
Shipping Density	g/L	800
Particle Density	g/mL	1.22
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	8
Recommended Operating Conditi	ons	
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 40
Regenerant		HCI
		$H_2SO_4$
Regenerant Concentration	%	HCl 4 - 10
		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	BV/h	2 - 10
Total Rinse Requirement	BV	2 - 10

1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

## **DIAION**<sup>™</sup> **UBK10HUP**

## **Hydraulic Characteristics**

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION<sup>TM</sup> UBK10HUP resin in normal down flow operation is shown in the graphs below.

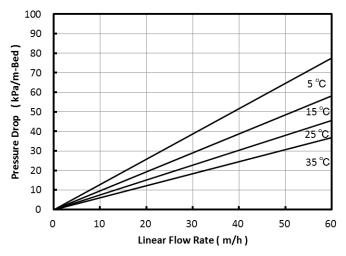


Fig. 1 Pressure Drop of UBK10HUP

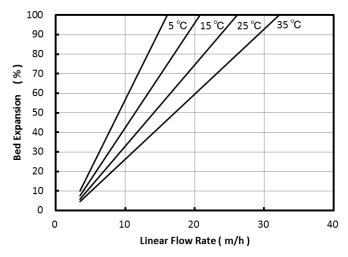


Fig. 2 Bed Expansion of UBK10HUP

## **Notice**

DIAION<sup>TM</sup> 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.