

## Product Data Sheet

**DIAION™ UBK16**

DIAION™ UBK16 is a cation exchange resin with a uniform particle size. It has 16% cross-linkages and excellent properties. A wide range of applications, especially in a field of pharmaceuticals, is recommended.

**Product**

Grade Name	DIAION™ UBK16	
Type	Strong Acid Cation	
Matrix	Styrene-DVB, Gel	
Functional Group	Sulfonic acid	
Ionic Form	Na <sup>+</sup>	

**Specification**

Whole Bead Count	-	90 min.
Salt Splitting Capacity	meq/mL	2.3 min.
Water Content	%	27 - 37
Mean Particle Size	μm	600 ± 50
Uniformity Coefficient	-	1.2 max.

**Typical Properties**

Shipping Density	g/L	870
Particle Density	g/mL	1.38
Total Swelling (Na <sup>+</sup> to H <sup>+</sup> )	%	6

**Recommended Operating Conditions**

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		HCl H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10 H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	30 - 150
Regenerant Flow Rate	m/h	2 - 10
Total Rinse Requirement	BV	2 - 10



## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBK16 resin in normal down flow operation is shown in the graphs below.

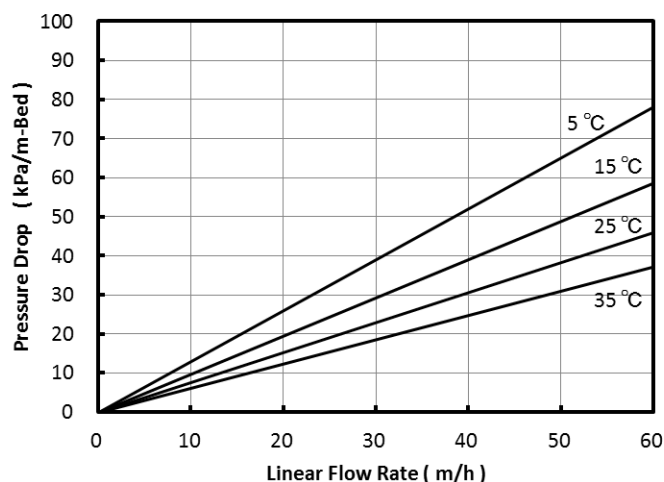


Fig. 1 Pressure Drop of UBK16

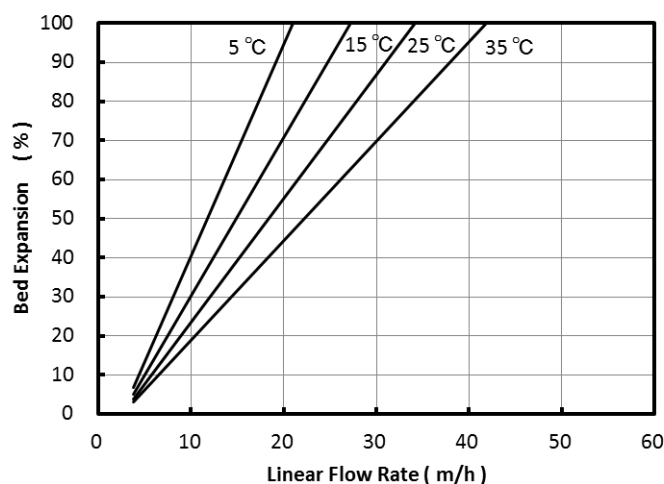


Fig. 2 Bed Expansion of UBK16

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