

## Product Data Sheet

**DIAION™ UBK535**

DIAION™ UBK535 is a high quality uniform particle size cation exchange resin. It has standard crosslinkage and excellent properties for industrial applications. It is recommended for industrial pharmaceuticals, fermentation and food fields.

**Product**

Grade Name	DIAION™ UBK535	
Type	Strong Acid Cation	
Matrix	Styrene-DVB, Gel	
Functional Group	Sulfonic acid	
Ionic Form	Ca <sup>2+</sup>	

**Specification**

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.6 min.
Water Content	%	47 - 51
Particle Size Distribution 190 - 240 µm	%	90 min.
Uniformity Coefficient	-	1.10 max.
Ionic Form Conversion (Ca <sup>2+</sup> )	eq%	98 min.

**Typical Properties**

Shipping Density	g/L	840
Particle Density	g/mL	1.27
Mean Particle Size	µm	220
Total Swelling (Ca <sup>2+</sup> to H <sup>+</sup> )	%	20

**Recommended Operating Conditions**

Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14

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## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ UBK535 resin in normal down flow operation is shown in the graphs below.

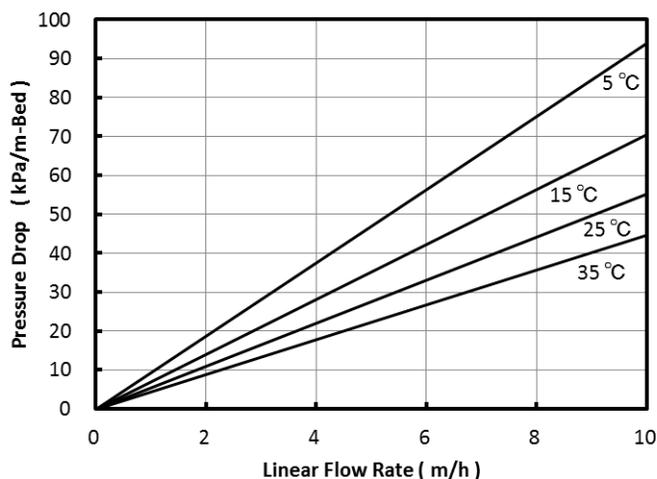


Fig. 1 Pressure Drop of UBK535

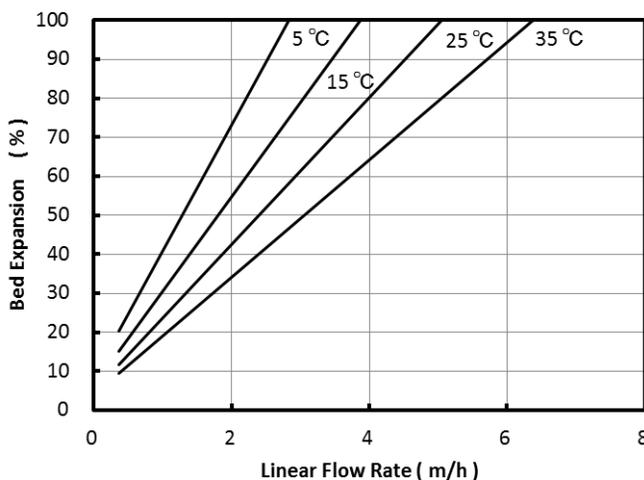


Fig. 2 Bed Expansion of UBK535

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