DIAION[™] UBK530K

DIAION™ UBK530K 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.

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Grade NameDIAIONTM UBK530KTypeStrong Acid CationMatrixStyrene-DVB, GelFunctional GroupSulfonic acidIonic FormNa*SpecificationWhole Bead Count - 95 min.Salt Splitting Capacity meq/mL1.6 min.Water Content%52.0 - 55.5Particle Size Distribution 330 - 390 μm%90.0 min.Uniformity Coefficient-1.10 max.Typical PropertiesShipping Density g/L830Particle Density g/mL1.22Mean Particle Size μm360Total Swelling (Na* to H*) %10Recommended Operating ConditionsMaximum Operating Temperature°C120Operating pH Range0 - 14	Product					
MatrixStyrene-DVB, Gel Sulfonic acid Sulfonic acid Ionic FormSpecificationWhole Bead Count-95 min.Salt Splitting Capacity Water Content Water Content %52.0 - 55.5Particle Size Distribution 330 - 390 μm Uniformity Coefficient%90.0 min.Typical Properties-1.10 max.Typical PropertiesShipping Density Particle Density Mean Particle Size μm360Total Swelling Total Swelling Maximum Operating Temperature°C120	Grade Name		DIAION [™] UBK530K			
Functional Group Sulfonic acid	Туре		Strong Acid Cation			
Ionic FormNa+SpecificationWhole Bead Count - 95 min.Salt Splitting Capacity meq/mL1.6 min.Water Content %52.0 - 55.5Particle Size Distribution 330 - 390 μm%90.0 min.Uniformity Coefficient - 1.10 max.Typical PropertiesShipping Density g/L830Particle Density g/mL1.22Mean Particle Size μm360Total Swelling (Na+ to H+) %10Recommended Operating ConditionsMaximum Operating Temperature°C120	Matrix		Styrene-DVB, Gel			
Specification Whole Bead Count - 95 min. Salt Splitting Capacity meq/mL 1.6 min. Water Content % 52.0 - 55.5 Particle Size Distribution 330 - 390 μm % 90.0 min. Uniformity Coefficient - 1.10 max. Typical Properties Shipping Density g/L 830 Particle Density g/mL 1.22 Mean Particle Size μm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Functional Group		Sulfonic acid			
Whole Bead Count Salt Splitting Capacity meq/mL Water Content % 52.0 - 55.5 Particle Size Distribution 330 - 390 μm % 90.0 min. Uniformity Coefficient - 1.10 max. Typical Properties Shipping Density g/L Particle Density g/mL Particle Density g/mL 1.22 Mean Particle Size μm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Ionic Form		Na ⁺			
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Typical Properties Shipping Density g/L 830 Particle Density g/mL 1.22 Mean Particle Size μm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Water Content	%	52.0 - 55.5			
Typical Properties Shipping Density g/L 830 Particle Density g/mL 1.22 Mean Particle Size µm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Particle Size Distribution 330 - 390 μm	%	90.0 min.			
Shipping Density g/L 830 Particle Density g/mL 1.22 Mean Particle Size µm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Uniformity Coefficient	-	1.10 max.			
Particle Density g/mL 1.22 Mean Particle Size μm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Typical Properties					
Mean Particle Size μm 360 Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Shipping Density	g/L	830			
Total Swelling (Na ⁺ to H ⁺) % 10 Recommended Operating Conditions Maximum Operating Temperature °C 120	Particle Density	g/mL	1.22			
Recommended Operating Conditions Maximum Operating Temperature °C 120	Mean Particle Size	μm	360			
Maximum Operating Temperature °C 120	Total Swelling (Na ⁺ to H ⁺)	%	10			
	Recommended Operating Conditions					
Operating pH Range 0 - 14	Maximum Operating Temperature	°C	120			
	Operating pH Range		0 - 14			



DIAION[™] UBK530K

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM UBK530K resin in normal down flow operation is shown in the graphs below.

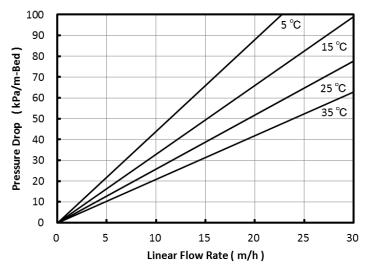


Fig. 1 Pressure Drop of UBK530K

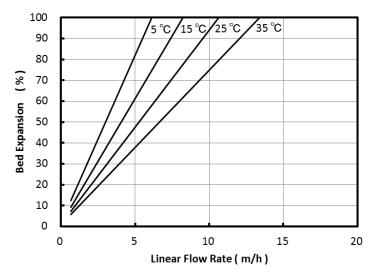


Fig. 2 Bed Expansion of UBK530K

Notice

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