Product Data Sheet DIAION[™] SKT10L

DIAION[™] SKT10L is a gel type strongly acidic cation exchange resin. It has standard cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

Product Grade Name		DIAION [™] SKT10L
Туре		Strong Acid Cation
Matrix Euroctional Group		Styrene-DVB, Gel Sulfonic acid
Functional Group		
Ionic Form		H⁺
Specification		
Color and Shape	-	Brown Translucent Beads
Salt Splitting Capacity	meq/mL	1.7 min.
Water Content	%	50 - 60
Particle Size Distribution on 1180 μ m	%	5 max.
Particle Size Distribution thr. 425 μ m	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Ionic Conversion (H^+)	eq%	99.9 min.
ΔΤΟΟ	ppb	20 max.
Outlet Resistivity	NAO	40
·	MΩ∙cm	12 min.
Typical Properties Shipping Density	g/L	790
Typical Properties Shipping Density Mean Particle Size	g/L μm	710
Typical Properties Shipping Density Mean Particle Size Particle Density	g/L	790 710
Typical Properties Shipping Density Mean Particle Size	g/L μm	790 710
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺)	g/L μm g/mL %	790 710 1.20
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺)	g/L μm g/mL %	790 710 1.20 9
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Condit	g/L μm g/mL % ions	790 710 1.20 9 120
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature	g/L μm g/mL % ions	790 710 1.20 9 120 0 - 14
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature Operating pH Range	g/L μm g/mL % ions	790 710 1.20 9 120 0 - 14 800
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature Operating pH Range Minimum Bed Depth	g/L μm g/mL % ions °C mm	790 710 1.20 9 120 0 - 14 800 10 - 40
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Condit Maximum Operating Temperature Operating pH Range Minimum Bed Depth Service Flow Rate	g/L μm g/mL % ions °C mm	790 710 1.20 9 120 0 - 14 800 10 - 40 HC
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) <u>Recommended Operating Condit</u> Maximum Operating Temperature Operating pH Range Minimum Bed Depth Service Flow Rate	g/L μm g/mL % ions °C mm	790 710 1.20 9 120 0 - 14 800 10 - 40 HC H ₂ SO ₂
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature Operating pH Range Minimum Bed Depth Service Flow Rate Regenerant	g/L μm g/mL % ions °C mm BV/h	790 710 1.20 9 120 0 - 14 800 10 - 40 HC H ₂ SO ₂ HCl 4 - 10
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature Operating pH Range Minimum Bed Depth Service Flow Rate Regenerant	g/L μm g/mL % ions °C mm BV/h	790 710 1.20 9 120 0 - 14 800 10 - 40 HCI H ₂ SO ₄ 1 - 4
Typical Properties Shipping Density Mean Particle Size Particle Density Total Swelling (Na ⁺ to H ⁺) Recommended Operating Conditi Maximum Operating Temperature Operating pH Range Minimum Bed Depth Service Flow Rate Regenerant	g/L μm g/mL % ions °C mm BV/h	790 710 1.20

1 BV(Bed Volume)=1 m³/m³-resin

Product Data Sheet DIAION[™] SKT10L

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ SKT10L resin in normal down flow operation is shown in the graphs below.

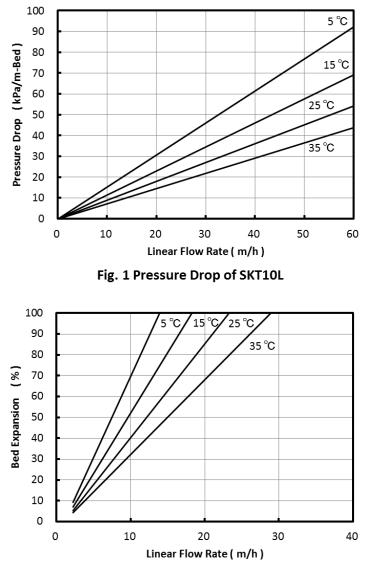
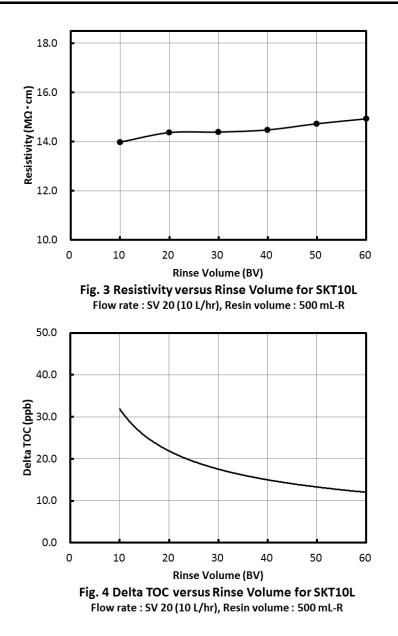


Fig. 2 Bed Expansion of SKT10L

Mitsubishi Chemical Corporation

Product Data Sheet DIAION[™] SKT10L

Rinse Performance



Notice

DIAION[™] 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.

Mitsubishi Chemical Corporation