TRILITE[®] UPRC100U

Uniform Particle Size Acid Cation Exchange Resin

TRILITE[®] UPRC100U is a UPS, SAC gel-type exchange resin designed for ultrapure water applications with excellent ion removal capacity, allowing for the economical production of high-purity water. TRILITE[®] UPRC100U has outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. It is supplied in its H+ form.

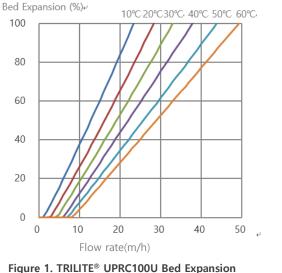
Physical and Chemical Properties			
Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	H⁺	Total Capacity(eq/l)	1.80 ↑
Shipping Density(g/l)	800	Moisture Retention(%)	50~56
Particle Density	1.2	Uniformity Coefficient	1.1↓
Particle Size(µm)	620±50	Swelling Rate(Na ⁺ →H ⁺ , %)	9
Whole Beads(%)	95 ↑	Ionic Conversion (%)	H⁺ 99 ↑

Recommended Operating Conditions				
Operating Temp(°C)	120↓	pH Range 0~14		
Bed Depth(mm)	800	Service Flow 5~120		
		S~120 Rate(m/h)		

Applications

TRILITE® UPRC100UUPRC100U is widely used for demineralization for ultrapure water application.

Hydraulic Characteristics



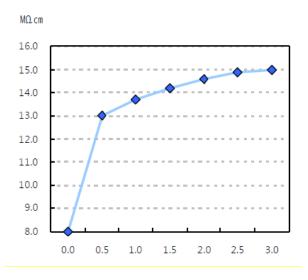
Pressure Drop (kPa/m-Bed) 10°C 20°C 30°C 100 40°C 50°C 80 60°C 60 40 20 0 0 20 40 60 80 100 120 Flow rate(m/h)

Figure 2. TRILITE[®] UPRC100U Pressure Drop

Resistivity Performance

Resistivity > 12.0 M Ω .cm (in 30min)

Operating Condition (Feed Water) : Resistivity > 17.5 MO.cm, TOC < 2ppb, SV = 30





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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification. Samyang Corporation, 31 Jong-ro 33-gil, Jongno-gu, Seoul, Korea Tel: (02)740-7732~7, Fax: (02)740-7140



Figure 1 and 2 show the backwash expansion of TRILITE[®] MC-08 as a function of flow rate and temperature.