## **TRILITE<sup>®</sup> UPRC200U**

Uniform Particle Size Acid Cation Exchange Resin

TRILITE<sup>®</sup> UPRC200U 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<sup>®</sup> UPRC200U has outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. It has a conversion rate of 99% or higher to its H+ form and 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)	1.90 ↑
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 <sup>+</sup> →H <sup>+</sup> , %)	9
Whole Beads(%)	95 ↑	Ionic Conversion Rate(%)	H⁺ 99 ↑

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

## Applications

TRILITE<sup>®</sup> UPRC200U is used for producing ultrapure water with very high resistivity and demanding control of TOC of less than 5ppb, in fields such as semiconductor, display, electronics, pharmaceuticals, power plants, and chemical manufacturing.

## **Hydraulic Characteristics**

Figure 1 and 2 show the backwash expansion of TRILITE<sup>®</sup> UPRC200U as a function of flow rate and temperature.

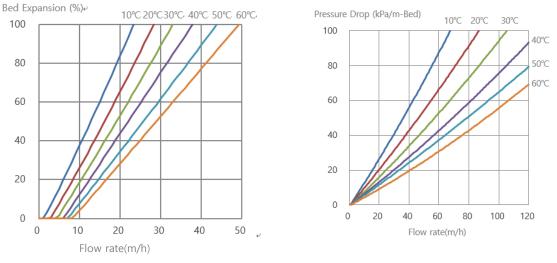


Figure 1. TRILITE® UPRC200U Bad expansion

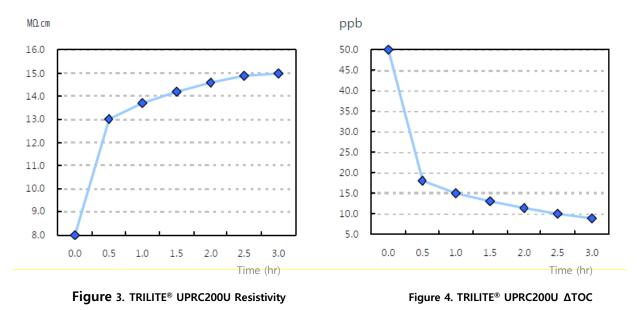


## **Resistivity and TOC Performance**

Resistivity > 12.0 M $\Omega$ .cm (in 30min)

 $\Delta TOC < 20 ppb$  (in 120min)

Operation Condition (Feed Water) : Resistivity > 17.5 MΩ.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



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