Technical Data Sheet

TRILITE® UPRA300U

Uniform Particle Size Strong Base Anion Exchange Resin for Ultrapure water

Rev 3. Jan 2023

TRILITE® UPRA300U is a UPS, SBA, gel-type, type1 exchange resin for ultrapure water designed with excellent ion removal capacity, allowing for the economical production of high-purity water. TRILITE® UPRA300U is a product that reduces TOC with high exchange capacity and chemical/physical stability, allowing for long-term use.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Type 1 (Trimethylammonium)
Ionic Form	OH^-	Total Capacity(eq/ℓ)	1.00 ↑
Shipping Density(g/ℓ)	650	Moisture Retention(%)	62~70
Particle Density	1.07	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	620±50	Whole Beads(%)	95 ↑
Ionic Conversion(%)	OH^- (97.0 ↑), Cl^- (0.1 ↓) CO_3^-(5 ↓), SO_4^-(0.5 ↓)	Metal Impurities (ppm/dry base)	Na 1 ↓, Fe 1 ↓, Ca 1 ↓ Zn 0.5 ↓, Al 0.5 ↓, Cu 0.5 ↓

Recommended Operating Conditions

Operating Temp(℃)	60 ↓	pH Range	0-14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120

Applications

TRILITE® UPRA300U is widely used for demineralization for ultrapure water applications (i.e semiconductor, display, pharmaceuticals, nuclear & thermal power plant)

Resistivity &△TOC

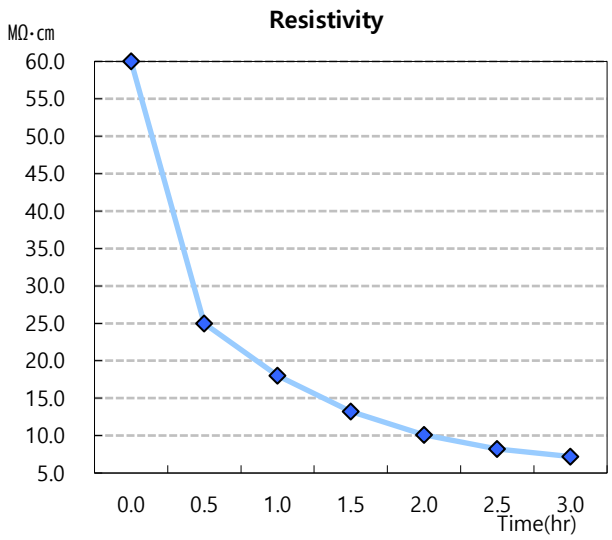

Figure 1. TRILITE® UPRA300U Resistivity

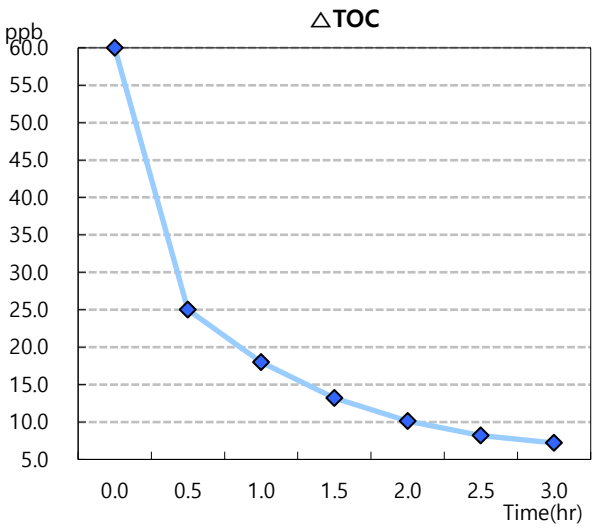

Figure 2. TRILITE® UPRA300U ΔTOC

Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

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Ion Exchange Resin

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