

TRILITE® UPRA100U

Uniform Particle Size Strong Base Anion Exchange Resin for Ultrapure water

Rev 3. Jan 2023

TRILITE® UPRA100U is a UPS, SBA, gel-type, type1 exchange resin designed for ultrapure water applications with excellent ion removal capacity, allowing for the economical production of high-purity water. TRILITE® UPRA100U is a standard cross-linked product with outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its OH⁻ form.

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)	660	Moisture Retention(%)	62~70
Particle Density	1.07	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	620±50	Whole Beads(%)	95 ↑
Compression strength (kgf/bead)	1.0 ↑	Ionic Conversion(%)	OH ⁻ 90.0 ↑, Cl ⁻ 10.0 ↓, CO ₃ ⁻ 5.0 ↓

Recommended Operating Conditions

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

Applications

TRILITE® UPRA100U is widely used for demineralization for ultrapure water.(ex. General electronic industry).

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® UPRA100U as a function of flow rate and temperature.

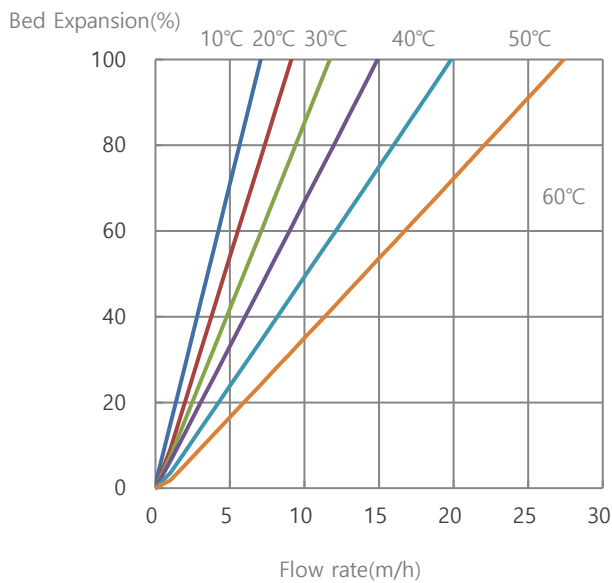


Figure 1. TRILITE® UPRA100U

Figure 2 shows the pressure drop of TRILITE® UPRA100U as a function of flow rate and water temperature.

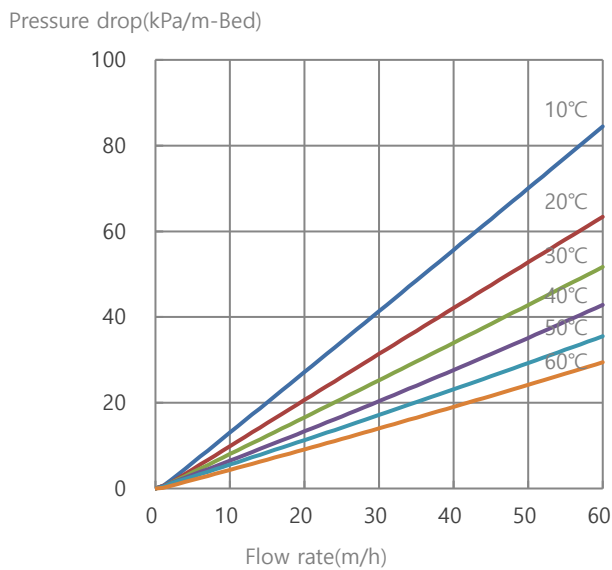


Figure 2. TRILITE® UPRA100U

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

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