

**TRILITE® SM300**

Mixed Bed Resin for Pure Water Application

**TRILITE® SM300** is a ready-to-use and highly regenerated mixed bed resin for high purity water application.

**TRILITE® SM300** is mixed bed resins of each component of strong acid cation exchange resin and strong base anion exchange resin. Cation and anion resins are mixed to give a stoichiometric equivalent of cation and anion exchange capacity.

**TRILITE® SM300** is particularly suitable for use in the polishing of high purity water for specialty electronics applications, pharmaceutical, power plant and chemical manufacturing industry.

**Physical and Chemical Properties**

Physical Form	Translucent spherical beads	
Matrix	Styrene-DVB, Gel	
Components	SAC	SBA
Volumetric mixed ratio(%)	40	60
Functional Group	Sulfonic acid	Type 1 (Trimethylammonium)
Ionic Form	H <sup>+</sup>	OH <sup>-</sup>
Conversion rate	99.0% ↑	95.0% ↑
Total Capacity(eq/ℓ)	1.8 ↑	1.0 ↑
Moisture Retention(%)	50~56	62~70
Particle Size(mm)	0.3 ~ 1.2	
Uniformity Coefficient	1.6 ↓	
Whole Beads(%)	95 ↑	
Crush Strength(kgf/bead)	0.4 ↑	

**Treated Water Quality**

Feed water	RO Outlet, Conductivity less than 10μs/cm, SV36
Outlet quality	Minimum 10.0 MΩ·cm ( in 10 minutes)

**Recommended Operating Conditions**

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

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## Applications

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It is mostly and widely used to get high purity water such applications post R/O or EDI polishers, humidifier, and other applications requiring demineralized water.

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

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