

**TRILITE® AW90**

Uniform Particle Size Weak Base Anion Exchange Resin

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TRILITE® AW90 Weak Base Anion Exchange Resin is a Porous Type Uniform Particle Size resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® AW90 has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® AW90 can be supplied by FB(Free Base) form.

**Physical and Chemical Properties**

Physical Form	Ivory opaque spherical beads	Matrix	Styrene-DVB, Porous
Functional Group	Tertiary amine	Ionic Form	Free Base
Total Capacity(eq/ℓ)	1.60 ↑	Moisture Retention(%)	40~50
Shipping Density(g/ℓ)	640	Particle Density	1.04
Uniformity Coefficient	1.1 ↓	Particle Size(mm)	0.55±0.05
Whole Beads(%)	95 ↑	Swelling (FB→Cl <sup>-</sup> , %)	20

**Recommended Operating Conditions**

Operating Temp(°C)	60	pH Range	0~7
Bed Depth(mm)	700	Service Flow Rate(m/h)	5~60
Regeneration			
Regenerant	NaOH	Concentration(%)	2~8
Level(g/ℓ)	30~120	Flow Rate(m/h)	2~8
Rinse Requirement(BV)	2~8		

**Applications**

TRILITE® AW90 has high operating capacity and excellent protection against organic fouling, thus used for demineralization and special refinement like starch/sugar processing.

## Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® AW90 as a function of flow rate and temperature.

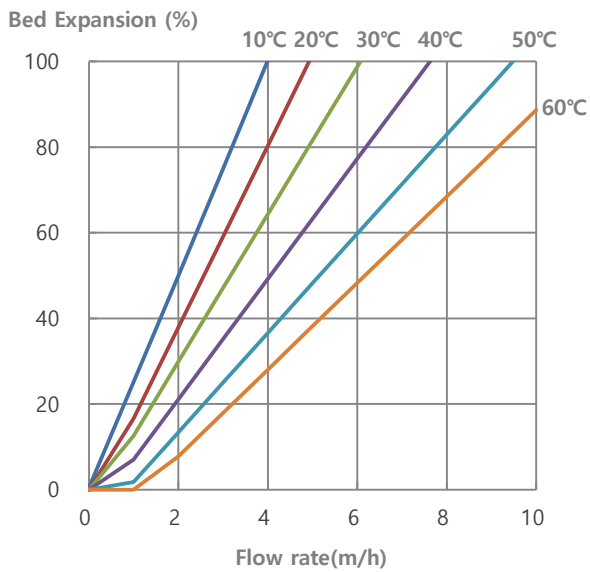


Figure 1. TRILITE® AW90 Cl<sup>-</sup> Type

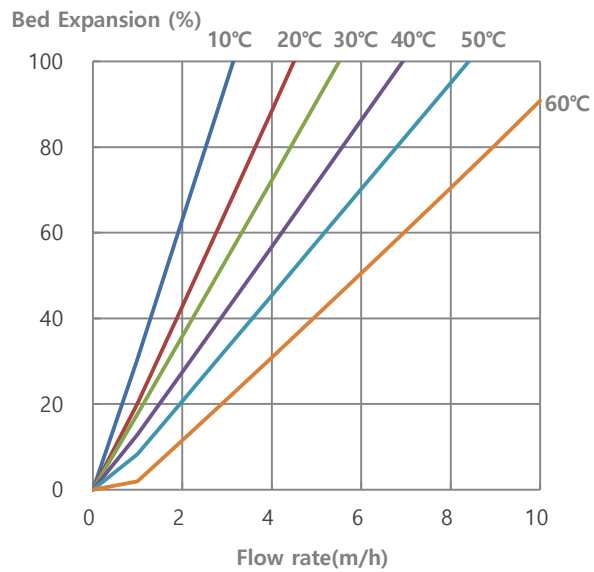


Figure 2. TRILITE® AW90 OH<sup>-</sup> Type

Figure 3 and 4 show the pressure drop of TRILITE® AW90 as a function of flow rate and water temperature.

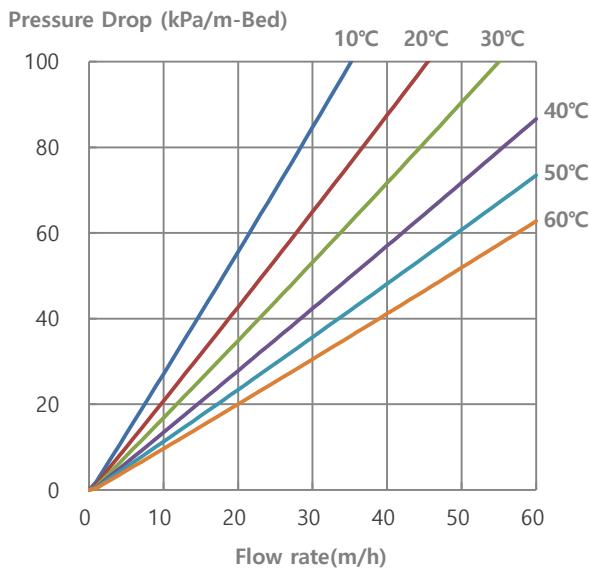


Figure 3. TRILITE® AW90 Cl<sup>-</sup> Type

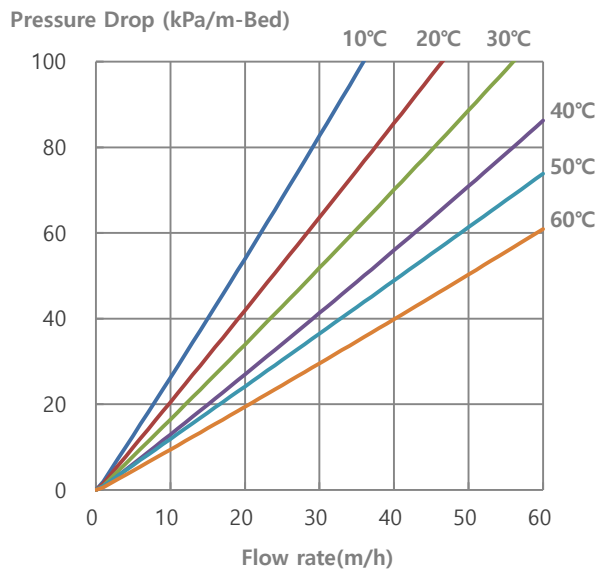


Figure 4. TRILITE® AW90 OH<sup>-</sup> Type

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