TRILITE[®] WCA10L

Gaussian Weak Acid Cation Exchange Resin

TRILITE[®] WCA10L is a Gaussian, WAC porous-type exchange resin with excellent ion removal capacity, which allows for the economical production of high-purity water. TRILITE® WCA10L has outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its H+ form.

Physical and Chemical Properties				
Matrix	Polystyrene+DVB, Porous	Functional Group	COOH(Carboxylic acid)	
Ionic Form	H ⁺	Total Capacity(eq/l)	4.20 ↑	
Shipping Density(g/l)	720	Moisture Retention(%)	45~50	
Particle Density	1.19	Uniformity Coefficient	1.6↓	
Particle Size(µm)	300~1,200	Whole Beads (%)	95 ↑	
Swelling rate	<u> </u>	Swelling rate	10	
(H+→Na+, %)	60	(H+→Ca ²⁺ , %)		

Recommended Operating Conditions				
Operating Temp(°C)	120↓	pH Range	4~14	
Bed Depth(mm)	700	Service Flow Rate(m/h)	5~50	
Regeneration				
Regenerant	HCI / H ₂ SO ₄	Concentration(%)	HCl (1~5) / H ₂ SO ₄ (1~2)	
Level(g/l)	40~150	Flow Rate(m/h)	4~20	
Rinse Requirement(BV)	4~10			

Applications

TRILITE[®] WCA10L has high total capacity and macroporous polymer structure which facilitates the diffusion of ions, especially divalent or multivalent cations. It is used for demineralization, metal recovery, and special refinement.

Hydraulic Characteristics

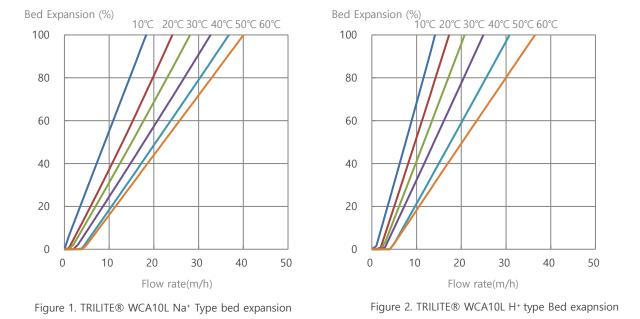
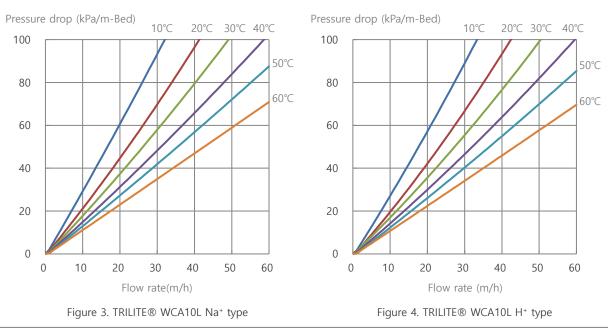


Figure 1 and 2 show the backwash expansion of TRILITE[®] WCA10L as a function of flow rate and temperature.





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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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