

**TRILITE® AMP14**

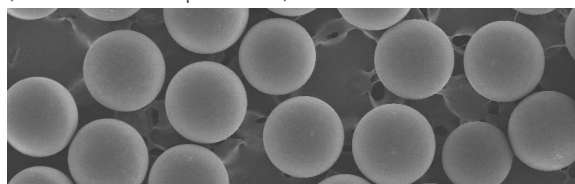
Strong Base Anion Exchange Resin, Macroporous Type

TRILITE® AMP14 is a strong base anion exchange resin (Macroporous type I) and its structure is based on polystyrene copolymer crosslinked by divinylbenzene with quaternary ammonium (TMA; trimethylammonium) functional group. TRILITE AMP14 has developed with such a technology that it has extremely good resistance to mechanical attrition, excellent chemical and physical stability. TRILITE AMP14 is recommended as the working anion exchanger in demineralizers or condensate polishing, used as a protective measure against organic fouling of anion exchangers in multi-stage or mixed bed type demineralizers.

**Physical and Chemical Properties**

Physical Form	Ivory opaque spherical beads	Matrix	Styrene-DVB, Macroporous
Functional Group	Tertiary amine	Ionic Form	Cl <sup>-</sup>
Total Capacity(eq/ℓ)	1.10 ↑ (Cl <sup>-</sup> )	Moisture Retention(%)	57~67 (Cl <sup>-</sup> )
Shipping Density(g/ℓ)	670	Particle Density	1.10
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.30~1.18 (Large type : 0.425~1.18)
Whole Beads(%)	95 ↑	Swelling (Cl <sup>-</sup> →OH <sup>-</sup> , %)	23.5

(Electron Microscope Picture)

**Recommended Operating Conditions**

Operating Temp(°C)	70(OH <sup>-</sup> ), 90(Cl <sup>-</sup> )	pH Range	0~14
Bed Depth(mm)	750	Service Flow Rate(m/h)	5~50
Regeneration			
Regenerant	NaOH	Concentration(%)	4~6
Level(g/ℓ)	80~160	Flow Rate(BV/hr)	4~8
Rinse Requirement(BV)	5~10		

**Applications**

TRILITE® AMP14 is used in not only for water treatment, but also in other applications such as organic scavenger, amino acids, sugar refining and removing silica and many other fields.



## Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® AMP14 as a function of flow rate and temperature.

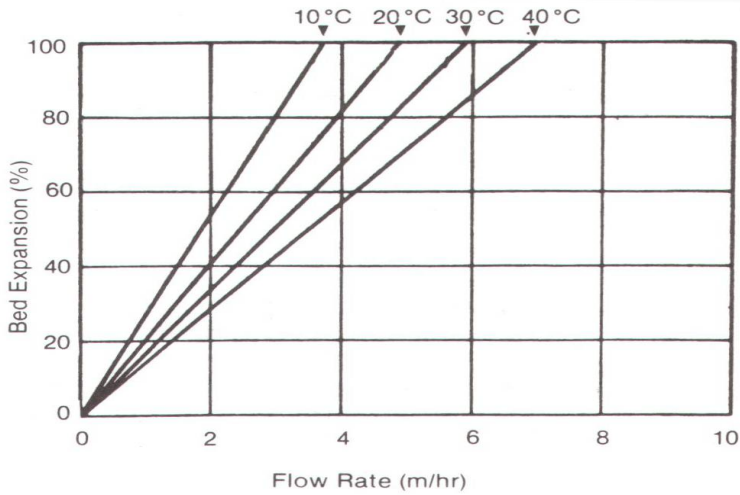


Figure 1. TRILITE® AMP14 Cl<sup>-</sup> Type

Figure 2 shows the pressure drop of TRILITE® AMP14 as a function of flow rate and water temperature.

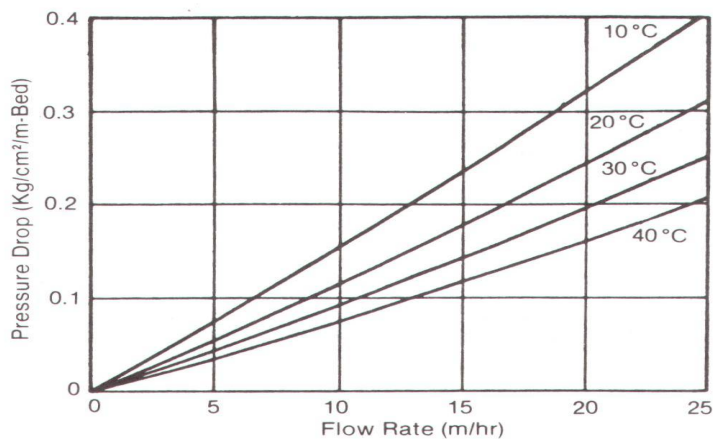


Figure 2. TRILITE® AMP14 Cl<sup>-</sup> Type

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