Product Data Sheet

TRILITE® AMP14

Strong Base Anion Exchange Resin, Macroporous Type

Rev.2 April 2020

TRILITE® AMP14 is a strong base anion exchange resin (Macroporous type) manufactured by the advanced technologies. It has high whole bead count, good resistance to mechanical attrition, excellent chemical and physical stability and high capacity. All these traits will help you to get pure water with little trouble for quite a long time. TRILITE® AMP14 has proven to be highly efficient in decolorizing both cane and beet sugar solutions, as well as widely used in the decolorizing or deashing of aqueous solutions of other organic products, such as glycerine, sorbitol, etc.

Physical and Chemical Properties			
Physical Form	Ivory opaque spherical beads	Matrix	Styrene-DVB, Macroporous
Functional Group	Quaternary amine	Ionic Form	Cl^-
Total Capacity(eq/ℓ)	1.00 ↑ (Cl^-)	Moisture Retention(%)	57~67
Shipping Density(g/ℓ)	670	Particle Density	1.10
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.30~1.18
Whole Beads(%)	95 ↑	Swelling ($Cl^- \rightarrow OH^-$, %)	23.5

Recommended Operating Conditions			
Operating Temp(℃)	90(Cl^-), 70(OH^-)	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 used in decolorizing both cane and beet sugar solutions, as well as widely used in the decolorizing or deashing of aqueous solutions of other organic products, such as glycerine, sorbitol, etc.

Hydraulic Characteristics

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

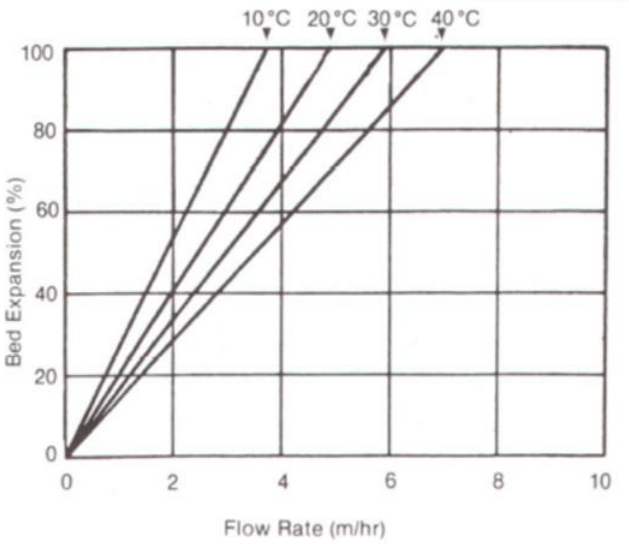

Figure 1. TRILITE® AMP14 Cl^- Type

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

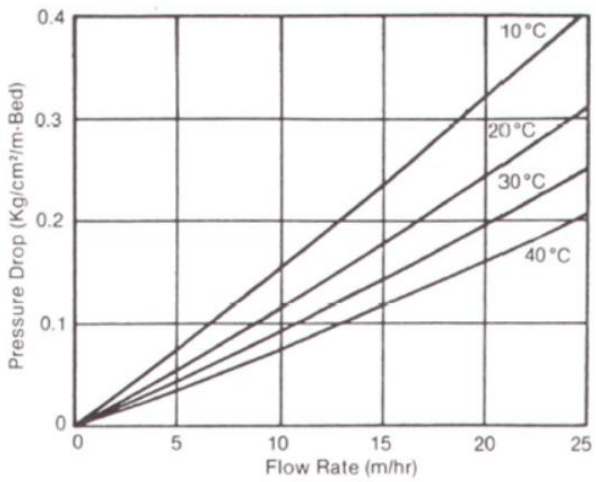

Figure 2. TRILITE® AMP14 Cl^- Type

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

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TRILITE
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Ion Exchange Resin

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