

SEA-IX™

SBA-G-OH-12

SBA Exchange Resin

Distributed Particle Sized, Gel-Type

Technical Data Sheet

SBA-G-OH-12 is a standard cross-linked UPS, SBA, gel-type, type1 exchange resin with excellent ion removal capacity, allowing for economical production of high-purity water. SBA-G-OH-12 has outstanding physical and chemical strength, resulting in a low resin crush rate over long-term use. It is supplied in its OH⁻ form and can also be supplied in its Cl⁻ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Type1(Trimethylammonium)
Ionic Form	OH ⁻	Total Capacity(eq/ℓ)	1.10↑
Shipping Density(g/ℓ)	660	Moisture Retention(%)	62~70
Particle Density	1.07	Uniformity Coefficient	1.1↓
Particle Size(μm)	620±50	Swelling Rate (Cl ⁻ →OH ⁻ , %)	24
Whole Beads(%)	95↑		

Recommended Operating Conditions

Operating Temp(°C)	60↓(OH ⁻), 80↓(Cl ⁻)	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60

Regeneration

Regenerant	NaOH	Concentration(%)	2~8
Level(g/ℓ)	50~150	Flow Rate(m/h)	2~8

Rinse Requirement(BV) 2~6

Applications

SBA-G-OH-12 is used for special purification applications such as water treatment, metal recovery, and sugar solutions due to its high SiO₂ removal ability and thermal resistance.

Packaging:

- 1000 lbs. (453 kg) super sacks
- 50lb Bags (22.6 kg) - 24 per pallet

Shipped from:

- Huntersville, NC



Technical Questions & Product Orders:

Isaac Post

Business Development Manager

ipost@birchtech.com

tel: 304 841 5681

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of SBA-G-OH-12 as a function of flow rate and temperature.

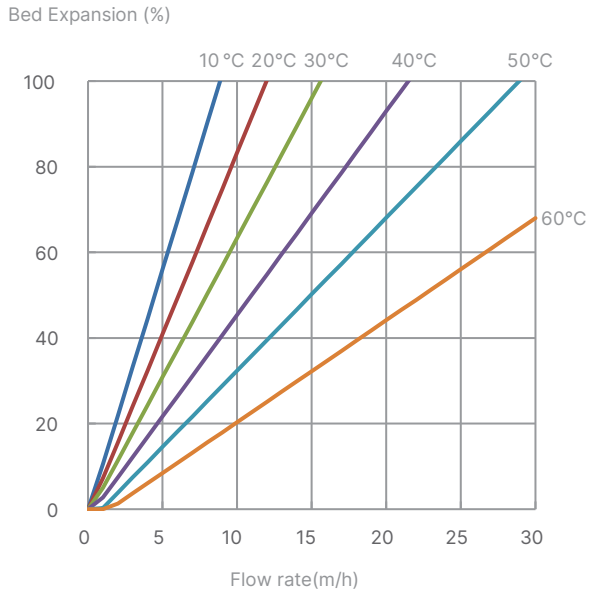


Figure 1 . SBA-G-OH-12 A-12 Cl⁻ Type

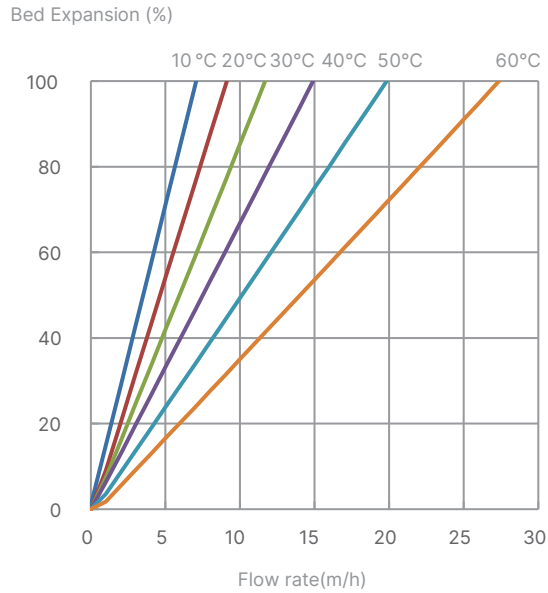


Figure 1 . SBA-G-OH-12 A-12 OH⁻ Type

Figure 3 and 4 show the pressure drop of SBA-G-OH-12 as a function of flow rate and water temperature.

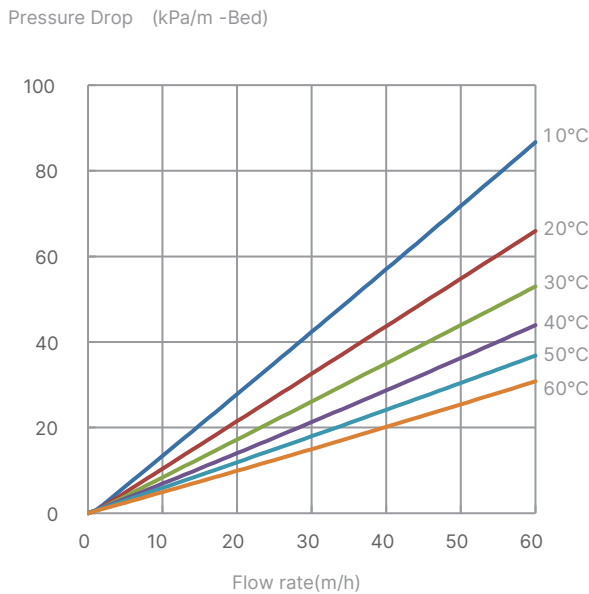


Figure 1 . SBA-G-OH-12 A-12 Cl⁻ Type

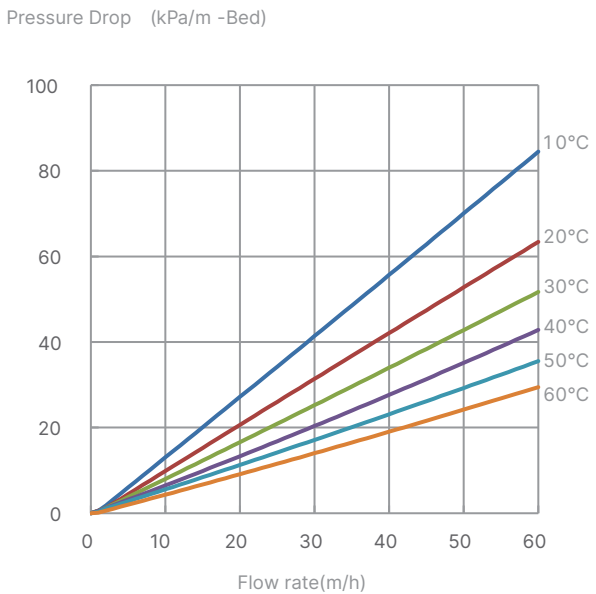


Figure 1 . SBA-G-OH-12 A-12 OH⁻ Type