NUCLEAR-GRADE RESINS

SEA-IX™

SAC-G-H/UPS
SAC Exchange Resin
Uniform Particle Sized, Gel-Type

Technical Data Sheet

SAC-G-H/UPS is a high cross-linked UPS SAC gel-type exchange resin, which has outstanding physical and chemical strength and a low resin attrition rate during long-term use. It is a product with outstanding impact strength due to its high cross-linking density,

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	H+	Total Capacity(eq/ℓ)	2.40↑
Shipping Density(g/ℓ)	815	Moisture Retention(%)	36~43
Particle Density	1.32	Uniformity Coefficient	1.1↓
Particle Size(μm)	550±50	Swelling Rate(Na+→H+, %)	7
Whole Beads(%)	95↑		

Recommended Operating Conditions

Operating Temp(°C)	120↓	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120

Applications

SAC-G-H/UPS is applied in nuclear power plant systems and maintains the outlet water quality with a △TOC of 10ppb under standard operating conditions.

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
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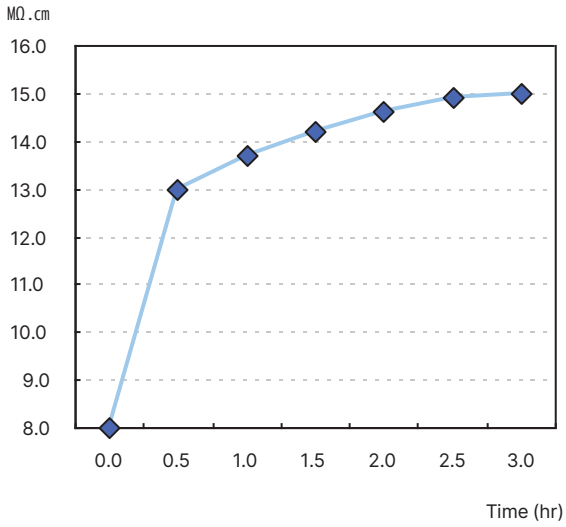
tel: 304 841 5681

1. Test Condition and Result

- Resistivity > 12.0 MΩ.cm (in 30min)
- ΔTOC < 10ppb (in 90min)
- Standard operating condition (Feed Water) : Resistivity > 17.5 MΩ.cm , TOC < 3ppb, SV = 30

<Resistivity>



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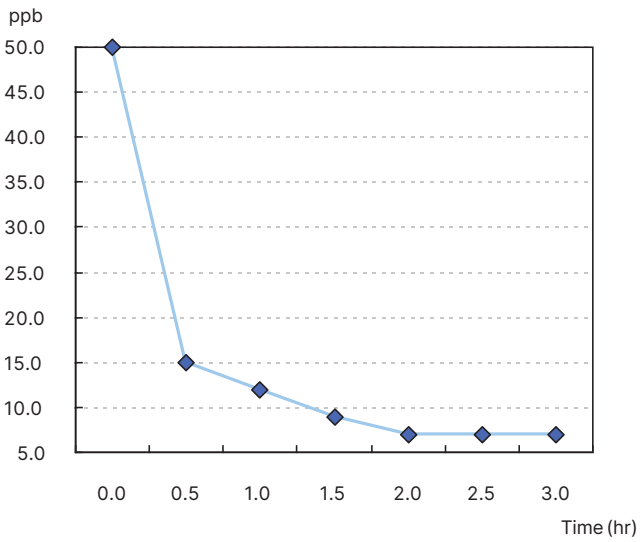

2. Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of SAC-G-H/UPS as a function of flow rate and temperature.

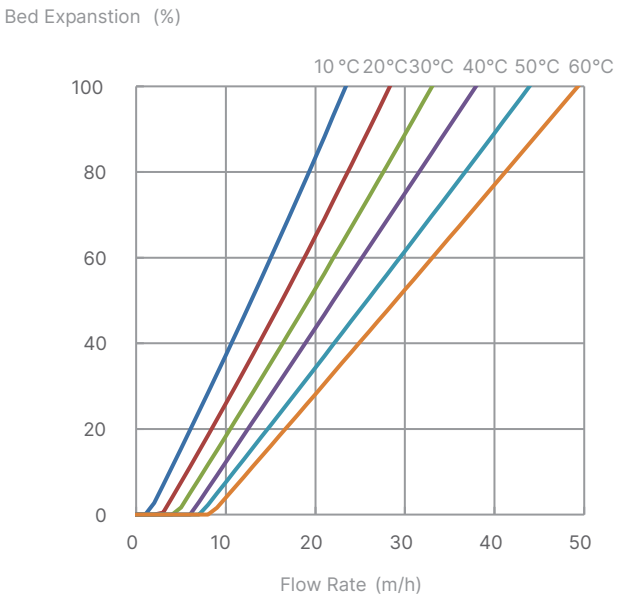

Figure 1. SAC-G-H/UPS H^+ Type Bed Expansion

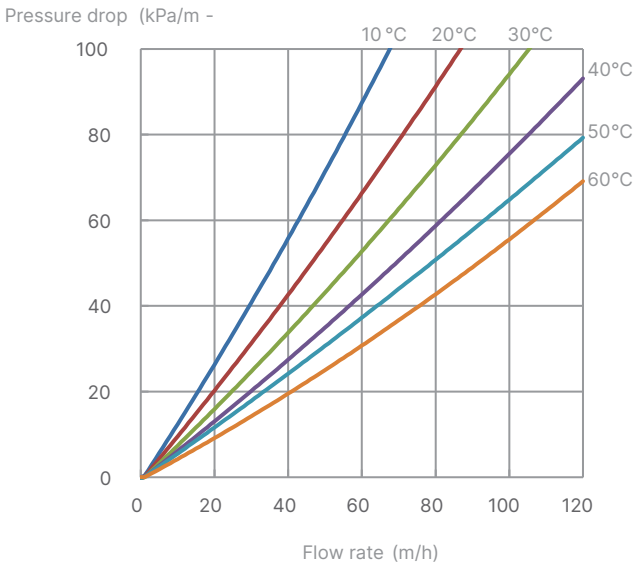

Figure 2. SAC-G-H/UPS H^+ Type Pressure drop

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