

Product Data Sheet

DuPont[™] AmberLite[™] IRC120 Na Ion Exchange Resin Gaussian, Gel, Strong Acid Cation Exchange Resin for Industrial Softening Applications

Description	DuPont [™] AmberLite [™] IRC120 Na general-purpose softening resin wit record of reliable performance in the offers a good balance of capacity a lifetime for co-flow regenerated sys treatment.	h a long-established track industry. This durable resin nd strength resulting in long
	AmberLite™ IRC120 Na is availabl applications when the sodium-form	
Applications	Industrial softeningDemineralization (when the sodi	um-form is preferred by the user)
System Designs	Co-current	
Historical Reference	AmberLite™ IRC120 Na Ion Excha AmberLite™ IR120 Na Ion Exchan	nge Resin has previously been sold as ge Resin.
Typical Properties	Physical Properties	
	Copolymer	Styrene-divinylbenzene
	Matrix	Gel
	Туре	Strong acid cation
	Functional Group	Sulfonic acid
	Physical Form	Amber, translucent, spherical beads
	Chemical Properties	
	Ionic Form as Shipped	Na ⁺
	Total Exchange Capacity	≥2.0 eq/L (Na⁺ form)
	Water Retention Capacity	42.0 – 49.0% (Na ⁺ form)
	Particle Size [§]	
	< 300 µm	≤2.0%
	> 1180 µm	≤4.0%
	Stability	
	Swelling	$Na^+ \rightarrow H^+ \leq 11\%$
	Density	
	Particle Density	1.27 g/mL
	Shipping Weight	840 g/L

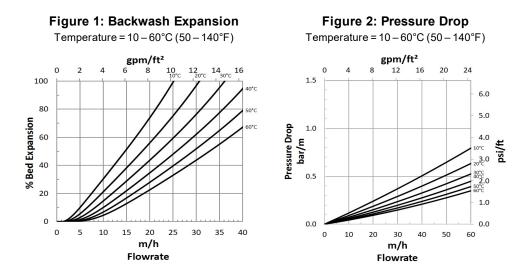
[§] For additional particle size information, please refer to the Particle Size Distribution Cross Reference Chart (Form No. 45-D00954-en).

uggested	Temperature Range (Na ⁺ form)	5–150°C (41–302°F)
perating	pH Range	
Conditions	Service Cycle	1 – 14
Juillions	Stable	0-14

For additional information regarding recommended minimum bed depth, operating conditions, and regeneration conditions for <u>separate beds</u> (Form No. 45-D01131-en) in water treatment, please refer to our Tech Fact.

Estimated bed expansion of DuPont[™] AmberLite[™] IRC120 Na Ion Exchange Resin as a function of backwash flowrate and temperature is shown in Figure 1.

Estimated pressure drop for AmberLite[™] IRC120 Na as a function of service flowrate and temperature is shown in Figure 2. These pressure drop expectations are valid at the start of the service run with clean water and a well-classified bed.



Product Stewardship

Hydraulic

Characteristics

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Please be aware of the following:

• WARNING: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

Have a question? Contact us at:

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