

Product Data Sheet

	DuPont[™] AmberLite[™] IRC120 Na Ion Exchange Resir Gaussian, Gel, Strong Acid Cation Exchange Resin for Industrial Softening Applications		
Description	DuPont [™] AmberLite [™] IRC120 Na Ion Exchange Resin is a general-purpose softening resin with a long-established track record of reliable performance in the industry. This durable resin offers a good balance of capacity and strength resulting in long lifetime for co-flow regenerated systems in industrial water treatment.		
	AmberLite™ IRC120 Na is available for demineralization applications when the sodium-form is preferred by the user.		
Applications	 Industrial softening Demineralization (when the sodium-form is preferred by the user) 		
System Designs	Co-current		
Historical Reference	AmberLite™ IRC120 Na Ion E AmberLite™ IR120 Na Ion Exc	xchange Resin has previously been sold as change Resin.	
Typical Properties	Physical Properties		
i ypical i toperties	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	$Na^+ \rightarrow H^+ \le 11\%$	
	Density		
	Particle Density	1.27 g/mL	
	Shipping Weight	840 g/L	
	8 - 1		

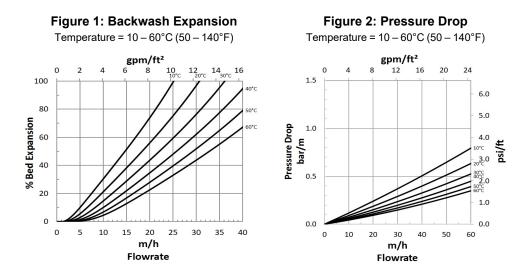
[§] For additional particle size information, please refer to the <u>Particle Size Distribution Cross Reference Chart</u> (Form No. 45-D00954-en).

Suggested	Temperature Range (Na ⁺ form)	5–150°C (41–302°F)
Operating	pH Range	
Conditions	Service Cycle	1 – 14
	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.	

Hydraulic Characteristics

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.



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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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