

Попниколова, Петранка А.

From: Богоева, Юлия К.
Sent: 16 март 2026 г. 8:19
To: Попниколова, Петранка А.
Сс: Александров, Пламен Г.; Лазарова, Милена Т.
Subject: FW: Покана за пазарна консултация №57851 смоли Amberlite
Attachments: IER-AmberLite-IRA402-CI-PDS-45-D01251-en.pdf; IER-AmberLite-IRA96-PDS-45-D01250-en.pdf; IER-AmberLite-IRC120-Na-PDS-45-D01246-en.pdf

ВХ-Е-1782/16.03.2026

From: Jivko Sashov <Jivko.Sashov@vidara.com>
Sent: Saturday, March 14, 2026 5:37 PM
To: commercial <commercial@npp.bg>
Subject: Покана за пазарна консултация №57851 смоли Amberlite

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До: „АЕЦ Козлодуй“ ЕАД
E-mail за подаване: commercial@npp.bg

Уважаеми дами и господа,
Във връзка с поканата за пазарна консултация №57851 относно „Доставка на йонообменни смоли Amberlite, производство на фирма Dupont (DUPONT SPECIALITY PRODUCTS GMBH & CO KG)“, предоставяме нашето индикативно предложение, подготвено съгласно изискванията на възложителя.

	qty	SP/L	Rev
AMBERLITE™ IRC120 Na	8 000	3,30	26 400
AMBERLITE™ IRA96	8 000	8,85	70 800
AMBERLITE™ IRA402 CI	11 000	6,45	70 950
Total:	27 000		168 150

алута: Цените са посочени в евро, без ДДС

Инкотерм: СРТ Козлодуй, България

Наличност: Точната наличност ще бъде определена в момента, в който сте готови да направите поръчка.

Стандартен срок на годност: 36 месеца от датата на производство

Стандартни срокове за доставка:

IRC120 Na: 17 седмици от получаване на поръчката

IRA96: 24 седмици от получаване на поръчката

IRA402 CI: 6 седмици от получаване на поръчката

Данни за контакт

ВИДАРА БЪЛГАРИЯ ЕООД

Адрес: ул. „Обелско шосе“ 12, София 1360

Лице за контакт: Живко Сашов

Тел.: +359 888 288 447

E-mail: jivko.sashov@vidara.com

С уважение

Jivko Sashov

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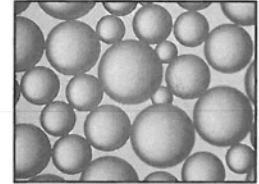
Product Data Sheet

DuPont™ AmberLite™ IRA402 Cl Ion Exchange Resin

Gaussian, Gel, Strong Base Anion Exchange Resin for Industrial Demineralization Applications

Description

DuPont™ AmberLite™ IRA402 Cl Ion Exchange Resin is a general-purpose demineralization resin with a long-established track record of reliable performance in the industry. This industry-staple resin is designed to provide excellent balance of properties for capacity, strength, silica selectivity, and a long lifetime for co-flow regenerated systems in variety of industrial water treatment applications.



Applications

- Demineralization
 - Ideally when treating water with:
 - High percentage of silica
 - When the treatment goal is:
 - Removal of strong and weak acids
 - Lowest silica leakage

System Designs

- Co-current

Typical Properties

Physical Properties	
Copolymer	Styrene-divinylbenzene
Matrix	Gel
Type	Strong base anion, Type I
Functional Group	Trimethylammonium
Physical Form	Amber, translucent, spherical beads
Chemical Properties	
Ionic Form as Shipped	Cl ⁻
Total Exchange Capacity	≥ 1.20 eq/L (Cl ⁻ form)
Water Retention Capacity	49.0 – 59.0% (Cl ⁻ form)
Particle Size §	
Particle Diameter	600 – 750 μm
Uniformity Coefficient	≤ 1.80
< 300 μm	≤ 1.0%
> 1180 μm	≤ 5.0%
Stability	
Whole Uncracked Beads	≥ 90%
Swelling	Cl ⁻ → OH ⁻ ≤ 20%
Density	
Particle Density	1.07 g/mL
Shipping Weight	670 g/L

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

Suggested Operating Conditions

Temperature Range	
OH ⁻ form †	5 – 60°C (41 – 140°F)
Cl ⁻ form	5 – 100°C (41 – 212°F)
pH Range	
Service Cycle	1 – 14
Stable	0 – 14

† Operating at elevated temperatures, for example above 60 – 70°C (140 – 158°F), may impact resin life. Contact our technical representative for details.

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

Hydraulic Characteristics

Estimated bed expansion of DuPont™ AmberLite™ IRA402 Cl Ion Exchange Resin as a function of backwash flowrate and temperature is shown in Figure 1.

Estimated pressure drop for AmberLite™ IRA402 Cl 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.

Figure 1: Backwash Expansion

Temperature = 10 – 60°C (50 – 140°F)

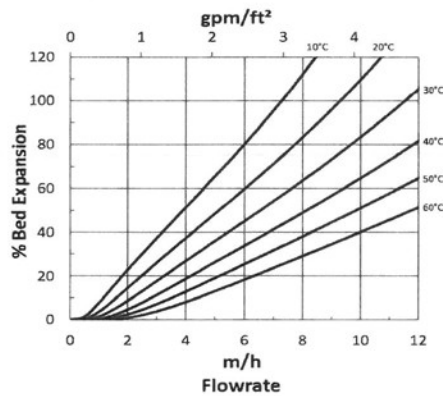
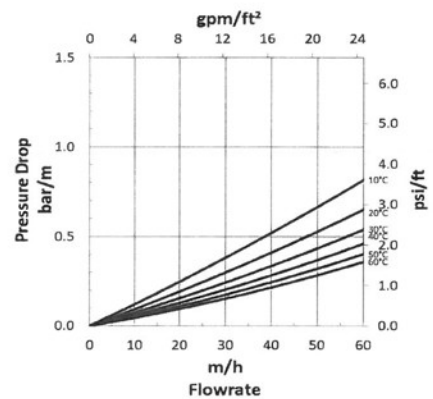


Figure 2: Pressure Drop

Temperature = 10 – 60°C (50 – 140°F)



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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:

www.dupont.com/water/contact-us

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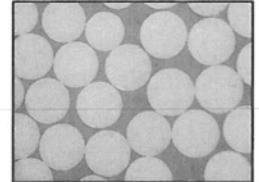
Product Data Sheet

DuPont™ AmberLite™ IRA96 Ion Exchange Resin

Gaussian, Macroporous, Weak Base Anion Exchange Resin for Industrial Demineralization Applications

Description

DuPont™ AmberLite™ IRA96 Ion Exchange Resin is a general-purpose demineralization 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.



Weak base anion resins are well-suited for use with strong base anion resins to improve overall efficiency and throughput of a demineralization system. It effectively removes mineral acids and organics, reducing the ionic load on the strong base anion resin and also protecting it from organic fouling. The weak base anion resin increases a system's overall capacity to remove organics.

AmberLite™ IRA96 has excellent physical and thermal stability. The macroporous structure allows for easy release of natural organic molecules providing high organic fouling resistance.

Applications

- Demineralization, ideally when treating water with:
 - High organic fouling potential
 - High percentage of mineral acidity (FMA)
- Partial demineralization when weak acid removal is not required

System Designs

- Co-current

Typical Properties

Physical Properties	
Copolymer	Styrene-divinylbenzene
Matrix	Macroporous
Type	Weak base anion
Functional Group	Tertiary amine
Physical Form	White to tan, opaque, spherical beads
Chemical Properties	
Ionic Form as Shipped	Free base (FB)
Total Exchange Capacity	≥ 1.3 eq/L (FB form)
Water Retention Capacity	59.0 – 65.0% (FB form)
Particle Size [§]	
Particle Diameter	550 – 750 µm
Uniformity Coefficient	≤ 1.6
< 300 µm	≤ 1.0%
> 1180 µm	≤ 1.0%
Stability	
Whole Uncracked Beads	≥ 95%
Swelling	FB → HCl : 15%
Density	
Particle Density	1.05 g/mL
Shipping Weight	670 g/L

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

Suggested Operating Conditions

Temperature Range (FB form)	5 – 60°C (41 – 140°F)
pH Range	
Service Cycle	0 – 6
Stable	0 – 14

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

Hydraulic Characteristics

Estimated bed expansion of DuPont™ AmberLite™ IRA96 Ion Exchange Resin as a function of backwash flowrate and temperature is shown in Figure 1.

Estimated pressure drop for AmberLite™ IRA96 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.

Figure 1: Backwash Expansion
Temperature = 10 – 60°C (50 – 140°F)

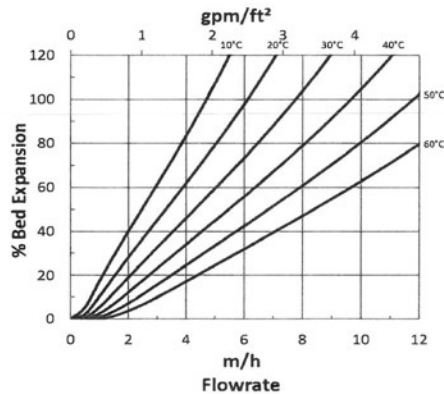
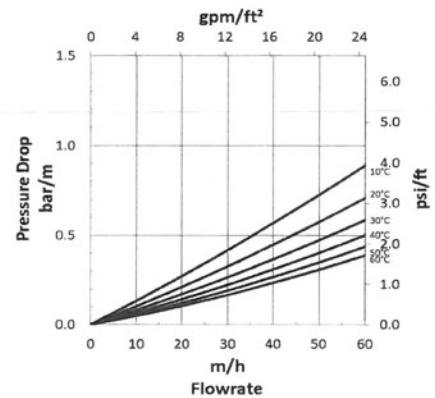


Figure 2: Pressure Drop
Temperature = 10 – 60°C (50 – 140°F)



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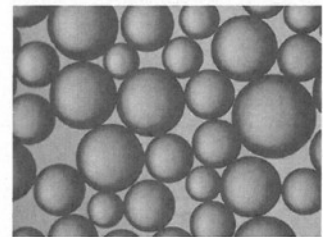
DuPont™ AmberLite™ IRC120 Na Ion Exchange Resin

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 Exchange Resin has previously been sold as AmberLite™ IR120 Na Ion Exchange Resin.

Typical Properties

Physical Properties	
Copolymer	Styrene-divinylbenzene
Matrix	Gel
Type	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	40.0 – 50.0% (Na ⁺ form)
Particle Size [§]	
< 300 μm	≤ 2.0%
> 1180 μm	≤ 4.0%

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

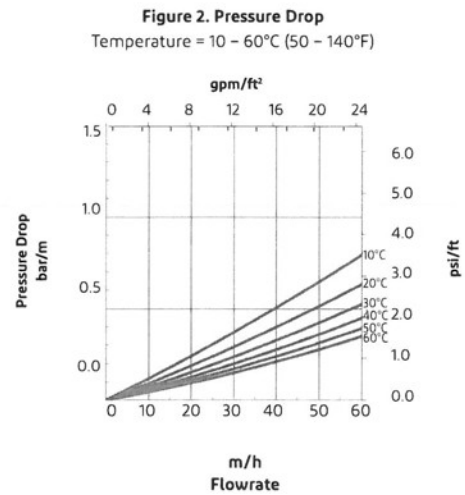
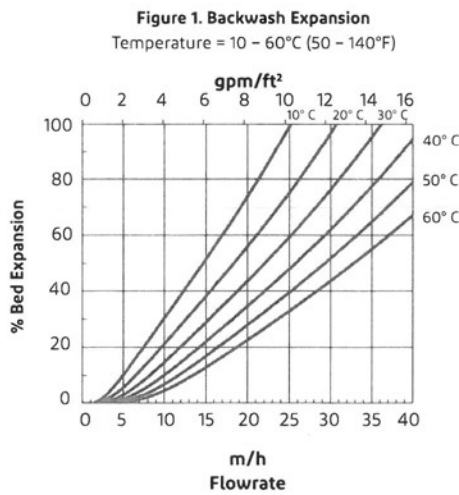
Stability	
Swelling	Na ⁺ → H ⁺ ≤ 11%
Density	
Particle Density	1.27 g/mL
Shipping Weight	817-840 g/L
Suggested Operating Conditions	
Temperature Range (Na ⁺ form)	5 – 150°C (41 – 302°F)
pH Range	
Service Cycle	1 – 14
Stable	0 – 14

For additional information regarding recommended minimum bed depth, operating conditions, and regeneration conditions for [separate beds](#) (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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Form No. 45-D01246-en, Rev. 5
June 2024