



DuPont™ AmberChrom™ 1X8 100-200 Cl Chromatography Resin

Ion Exchange Resin for Purification of Small Active Molecules

Key Features

- Strong type I anion exchange with a 8% crosslinking level.
- Controlled particle size with a low level of fines.
- Strong insoluble structure resulting in a high resistance to oxidation, reduction, mechanical wear and breakage.

Key Applications

- Separation and isolation of amino acids.
- Desalting and concentration after fermentation.

Typical Properties

Physical Properties	
Copolymer	Styrene-divinylbenzene
Matrix	Gel
Туре	Anion exchange resins
Functional Group	Trimethylammonium
Physical Form	Opaque, white, spherical beads
Chemical Properties	
Ionic Form as Shipped	Cl ⁻
Water Retention Capacity	39-45%
Total Exchange Capacity	≥ 1.2 Eq/L

Particle Size	
< 88 µm	≤ 15%
> 250 µm	≤ 15%
Stability	
Whole Uncracked Beads	≥ 90%
Swelling	Cl ⁻ → OH ⁻ ≤ 20%
Density	
Shipping Weight	705 g/L
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Suggested Operating Conditions

Temperature Range	
OH-	5 – 60°C (41 – 140°F)
Cl ⁻	5 – 100°C (41 – 212°F)
pH Range	1 – 14

General Information

- The operational stability of ion exchange resins is largely defined by the particular process involved. Therefore, stability testing under actual process conditions is an important part of the resin evaluation and selection process. Ion exchange resins are tolerant of a wide range of chemical conditions and can be washed over the entire pH range without ill effects.
- Slower degradation with oxygen may be catalytically induced.
 Therefore, exposure of resins to metal ions (including iron, manganese and copper) should be minimized in oxidizing environments. The physical stability of resins is also affected by the method of product handling. Deep resin beds, small diameter beds, very high flow rates and frequent pumping or agitation all can contribute to resin attrition breakage.

Important Information

 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.



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