Product Data Sheet
Ion Exchange Resin

DuPont™ AmberChrom™ XT30 Chromatography Resin

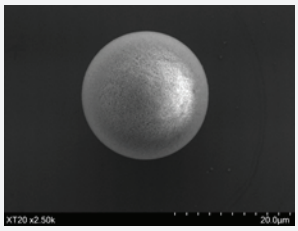
Reverse Phase Polymeric Resin for Purification and Polishing of Proteins, Peptides, and Oligonucleotides

Key Features

- Mechanical stability and chemical robustness to standard reversed-phase solvents and cleaning agents.
- Stable within a very broad pH range (up to pH 14), and easily cleaned in place (CIP) with most organic solvents and dilute acids and bases.
- Suitable for high-resolution, high-pressure chromatography.

Key Applications

- Capture, separation, and purification of peptides.
- Purification of oligonucleotides from impurities (failure sequences, DMT-off, oxidation products).
- Final polishing to remove trace impurities.



Typical Properties

Physical Properties	
Copolymer	Crosslinked divinylbenzene
Matrix	Macroporous
Type	Adsorbent
Physical Form	White, opaque, spherical beads

Chemical Properties	
Functional Group	None
Shipping Form	Dry
Chemical Resistance	Insoluble in dilute solutions of acids or bases and common solvents: IPA, ACN, MeOH

Nitrogen BET	
Surface Area	550 – 600 m^2/g
Total Pore Volume	0.61 mL/mL
Average Pore Diameter	300 Å

Particle Size	
Particle Diameter, mean	30 µm
20 – 40 µm	≥ 80%

Suggested Operating Conditions

Maximum Recommended Operating Temperature	60°C (140°F)
pH Range	1 – 14
Maximum Recommended Operating Pressure	60 bar (870 psi)

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General Information

- DuPont™ AmberChrom™ XT30 chromatography resins can be used with medium pressure hardware (5 to 20 bar; 150 to 300 psi; 1000 kPa to 2000 kPa) or high pressure (HPLC column) up to 60 bar (880 psi/6000 kPa).
- DuPont™ AmberChrom™ XT30 chromatography resins are supplied in dry form and have a hydration ratio of 0.24 g/mL or 240 g/L. A slurry concentration of 40-45% is recommended for optimal column packing results, but higher percentage could be used if necessary.
- Store the column or used bulk resin in 20% solvent (propanol, methanol, ethanol, or acetonitrile), preferably between 4 – 25°C.

Important Information

- Polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-product must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use.
- Like any chromatographic stationary phase, a conditioning step with the working solvent must be performed before operation.
- **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.

Regulatory Note

DuPont can provide regulatory support for DuPont™ AmberChrom™ XT30 chromatography resins to end users under confidentiality, upon request.

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Have a question? Contact us at:
dupont.com/water/contact-us

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