

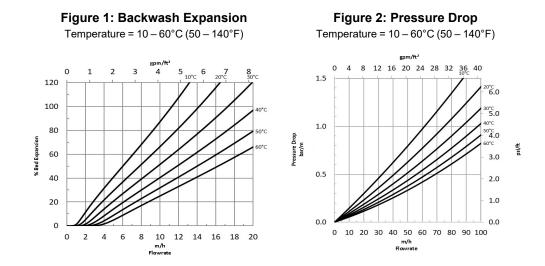
Product Data Sheet

	DuPontTM AmberLiteTM 600i Inert Resin Uniform Particle Size, Acrylic, Inert Resin for Condensate Polishing for the Power Industry and Industrial Demineralization Applications	
Description	DuPont [™] AmberLite [™] 600i inert resin is a non-functionalized, spherical resin used in mixed beds. Its density and particle size are tightly controlled to have a terminal settling velocity that is intermediate to those of the cation exchange resin and anion exchange resin, creating an inert zone between the functional resins wherein the regenerant is collected. This inert zone reduces the risk of cross-regeneration, improving water quality and rinse time whether it is used in internally- or externally-regenerated mixed bed systems.	
	AmberLite™ 600i is used in condensate polishing systems for the electrical power generation industry and in other high-purity mixed bed systems.	
Applications	 Mixed bed condensate polishing in fossil power plants Mixed bed polishing in industrial demineralization 	
System Designs	Mixed beds	
Historical Reference	DuPont™ AmberLite™ 600i inert resin has previously been sold as DOWEX MONOSPHERE™ 600i inert resin.	
Typical Properties	Physical Properties	
i ypical Properties	Copolymer	Crosslinked acrylic
	Туре	Inert
	Functional Group	None
	Physical Form	Brown to amber, opaque, spherical beads
	Particle Size §	Brown to ambor, opaquo, opnonoar boado
	Particle Diameter	$585\pm65\mu\text{m}$
	Uniformity Coefficient	≤1.25
	< 425 µm	5.0 max
	> 800 µm	2.0 max
	Density	
	Particle Density	1.10 - 1.20 g/mL
	Shipping Weight	705 g/L
	[§] 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	5–120°C (41–248°F)
Suggested	pH Range	0-14
Operating Conditions	· · · · ·	
conditions	conditions, and regenerat	regarding recommended minimum bed depth, operating tion conditions for <u>mixed beds</u> (Form No. 45-D01127-en) or 45-D01131-en) in water treatment, please refer to our Tech
	Facts.	

Hydraulic Characteristics

Estimated bed expansion of DuPont™ AmberLite™ 600i inert resin as a function of backwash flowrate and temperature is shown in Figure 1.

Estimated pressure drop for AmberLite [™] 600i 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.



ProductDuPont has a fundamental concern for all who make, distribute, and use its products, and
for the environment in which we live. This concern is the basis for our product stewardship
philosophy by which we assess the safety, health, and environmental information on our
products and then take appropriate steps to protect employee and public health and our
environment. The success of our product stewardship program rests with each and every
individual involved with DuPont products—from the initial concept and research, to
manufacture, use, sale, disposal, and recycle of each product.

Customer Notice DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

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

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

© 2023 DuPont. DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, sM or ® are owned by affiliates of DuPont de Nemours Inc., unless otherwise noted.

DOWEX MONOSPHERE™ is a trademark of The Dow Chemical Company.

