

Product Data Sheet

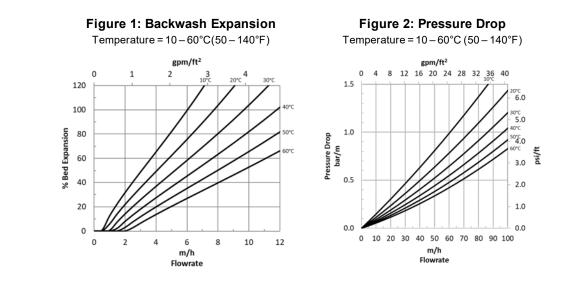
Drinking Water-grade, Uniform Particle Size Resin for Nitrate Removal

Description Applications	 AmberLite™ PWA15 Ion Exchange Resin is a uniform particle size anion exchange resin which can be used for the removal of nitrate from drinking water. It has outstanding physical stability and excellent rinse characteristics. AmberLite™ PWA15 is designed for regenerable nitrate removal for municipal water treatment systems. The uniform particle size makes it ideal for packed bed systems. Primary application: Nitrate removal when the nitrate concentration is greater than sulfate concentrate Also can be used for: Chromate removal in a regenerable system 	
Typical Properties	Physical Properties Copolymer Matrix Type Functional Group Physical Form Chemical Properties Ionic Form as Shipped Total Exchange Capacity Water Retention Capacity Particle Size § Particle Diameter Uniformity Coefficient < 300 μm > 850 μm Density Shipping Weight	Styrene-divinylbenzene Gel Strong base anion Trimethylammonium Amber, translucent, spherical beads Free base (FB) ≥ 0.7 eq/L 48 – 54% 580 ± 50 μm ≤ 1.1 ≤ 0.3% ≤ 5.0%
Suggested Operating Conditions	 [§] For additional particle size information, please (Form No. 45-D00954-en). Maximum Operating Temperature pH Range Service Cycle Stable 	e refer to the <u>Particle Size Distribution Cross Reference Chart</u> 40°C (104°F) 5-8 0-14

Hydraulic Characteristics

Estimated bed expansion of AmberLite[™] PWA15 Ion Exchange Resin as a function of backwash flowrate and temperature is shown in Figure 1.

Estimated pressure drop for AmberLite[™] PWA15 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.



Conditioning and Limits of Use

AmberLite[™] PWA15 Ion Exchange Resin is suitable for use in potable water applications¹ after an initial commissioning rinse of 10 bed volumes of potable water at ambient temperature.

The operating capacity of AmberLite[™] PWA15 resin depends on the operating conditions and the feedwater conditions.

1. Please confirm the regulatory approval in your specific country of use.

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	 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	This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.	

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