



## Product Data Sheet

### AmberLite™ PWA15 Ion Exchange Resin

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

#### Description

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.

#### Applications

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

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##### Physical Properties

Copolymer	Styrene-divinylbenzene
Matrix	Gel
Type	Strong base anion
Functional Group	Trimethylammonium
Physical Form	Amber, translucent, spherical beads

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##### Chemical Properties

Ionic Form as Shipped	Chloride (Cl <sup>-</sup> )
Total Exchange Capacity	≥ 1.3 eq/L
Water Retention Capacity	50 – 58%

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##### Particle Size §

Particle Diameter	575 ± 50 µm
Uniformity Coefficient	≤ 1.1
< 300 µm	≤ 0.5%
> 850 µm	≤ 5.0%

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##### Density

Shipping Weight	673 g/L
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§ For additional particle size information, please refer to the [Particle Size Distribution Cross Reference Chart](#) (Form No. 45-D00954-en).

#### Suggested Operating Conditions

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Maximum Operating Temperature	40°C (104°F)
pH Range	
Stable	0 – 14

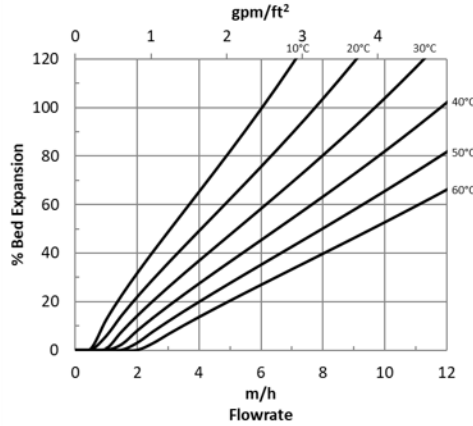
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## Hydraulic Characteristics

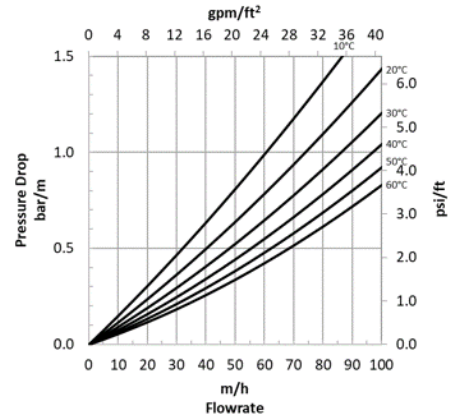
Estimated bed expansion of AmberLite™ PWA15 Ion Exchange Resin as a function of backwash flowrate and temperature is shown in Figure 1.

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.

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



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



## Conditioning and Limits of Use

AmberLite™ PWA15 Ion Exchange Resin is suitable for use in potable water applications<sup>1</sup> 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.

## Product Stewardship

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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.

## Regulatory Note

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

Have a question? Contact us at:

[www.dupont.com/water/contact-us](http://www.dupont.com/water/contact-us)

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