AMBERLITE™ PWA15 Resin
Drinking Water Grade

Nitrate Removal

AMBERLITE PWA15 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.

PROPERTIES

- Matrix: Cross linked copolymer
- Physical Form: Light amber beads
- Total exchange capacity: ≥ 1.40 eq/L
- Moisture holding capacity: 40 – 48%
- Shipping weight: 730 kg/m³ (46 lbs/ft³)
- Particle size:
  - Uniformity coefficient: < 1.2
  - Fines content: <0.425mm: 0.5% max

SUGGESTED OPERATING CONDITIONS

Please contact your Rohm and Haas representative for system design and application testing details.

- Maximum operating temperature: 60 °C (140 °F)
- Minimum bed depth: 610 mm (24 inches)
- Typical service flow rate: 5 – 40 BV/h* (0.6 – 5 gpm/ft³)
- Regenerant: NaCl
- Concentration: 6 – 12 %
- Minimum level: 80 g/l (5 lb/ft³)
- Minimum contact time: 20 minutes

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

COMMISSIONING AND LIMITS OF USE

AMBERLITE PWA15 is suitable for use in potable water applications after an initial commissioning rinse of 10 BV of water at ambient temperature.

The operating capacity of AMBERLITE PWA15 resin depends on the operating conditions and the feed water conditions.

REGULATORY

AMBERLITE PWA15 resin is certified to ANSI / NSF Standard 61 for drinking water components. Please contact your Rohm and Haas representative for additional certification information.

Resin products are manufactured in ISO 9001 certified facilities.
HYDRAULIC CHARACTERISTICS

Figure 1 and Figure 2 show the pressure drop data for AMBERLITE PWA15 resin as a function of flow rate and water temperature. Pressure drop data are valid at the start of the service run with clean water and a correctly classified bed. Figure 3 and Figure 4 show the bed expansion of AMBERLITE PWA15 resin as a function of backwash flow rate and water temperature.

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