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AMBERLITE™ PWA7 Resin

Drinking Water Grade

Introduction

Chromate Selective

AMBERLITE PWA7 resin is an anion exchange resin designed for the removal of chromate from drinking water. Its high capacity makes AMBERLITE PWA7 resin the perfect choice for a simple, once through chromate removal process for municipal water treatment systems.

Properties

Matrix	Cross linked polycondensate
Physical form	Cream coloured granules
Total exchange capacity	≥ 1.9 eq/L
Moisture holding capacity	58 – 68%
Shipping weight	610 kg/m ³ (38 lb/ft ³)
Particle size	
Screen grading	0.3 – 1.2 mm (16 – 50 mesh US Std Screens)
Fines content	<0.300 mm: 3% max

Suggested Operating Conditions

pH range	< 6.5
Maximum operating temperature	40 °C (105 °F)
Minimum bed depth	610 mm (24 inches)
Typical service flow rate	8 – 40 BV/hr* (1 – 5 gpm/ft ³)

Commissioning and limits of use

AMBERLITE PWA7 resin is suitable for use in potable water applications after an initial commissioning upflow rinse of 20 bed volumes of water at ambient temperature at service flow rate.

The operating capacity of AMBERLITE PWA7 resin depends on the operating conditions and the feed water conditions.

Regulatory

AMBERLITE PWA7 resin is certified to ANSI / NSF Standard 61 for drinking water components drinking water components for applications with minimum flow rates greater than or equal to 1.1 gpm/ft³. 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 PWA7 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 PWA7 resin as a function of backwash flow rate and water temperature.

Figure 1 Pressure Drop (metric)

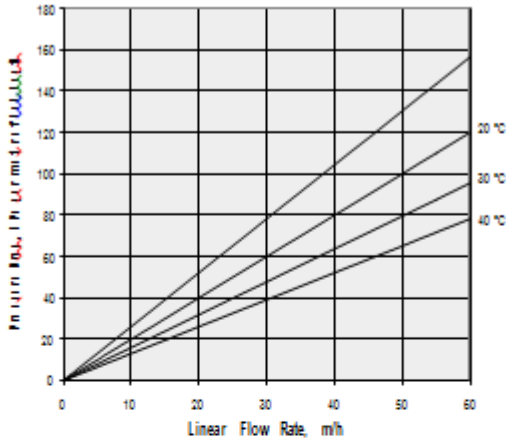


Figure 2 Pressure Drop (US units)

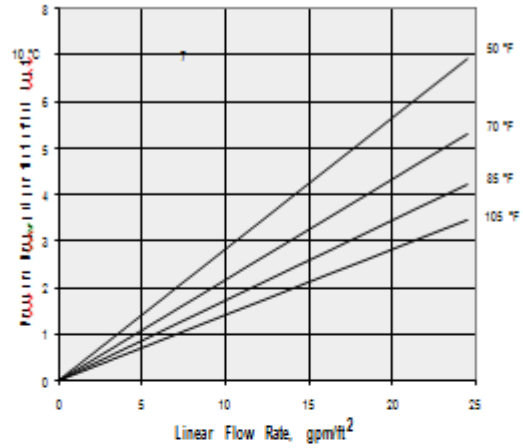


Figure 3 Bed Expansion (metric)

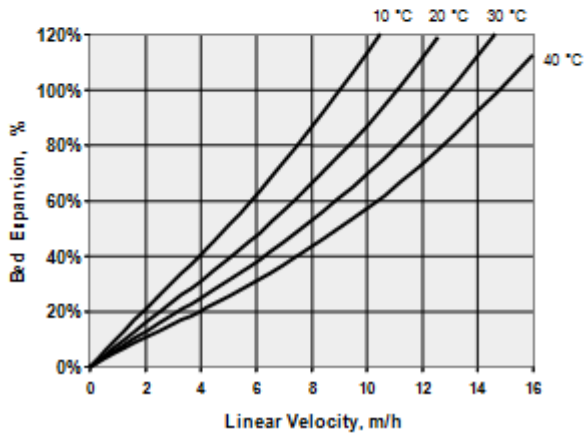
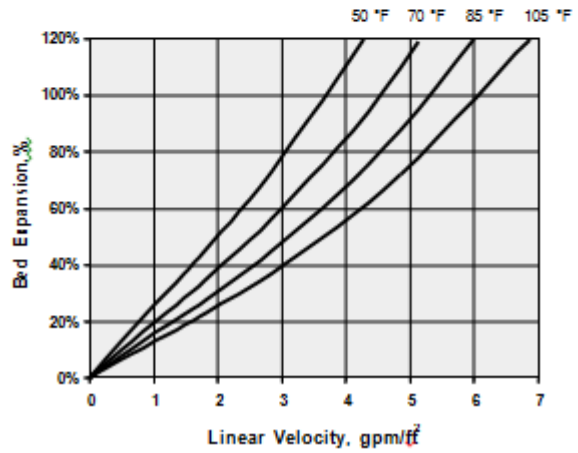


Figure 4 Bed Expansion (US units)



For more information about DOW™ resins, call the Dow Water & Process Solutions business:

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