



Tel: +44 (0) 1706 869777
 E-mail: sales@desal.co.uk
 Web: www.desal.co.uk

AMBERLITE™ PWA9 Resin

Drinking Water Grade

Introduction

Natural Organic Matter Removal

AMBERLITE PWA9 resin is an anion exchange resin that can be used to remove Natural Organic Matter from drinking water.

The high porosity of AMBERLITE PWA9 allows excellent removal of large organic molecules. This product is especially effective for colour removal from surface water.

Properties

Matrix	Cross linked copolymer	
Physical form	White opaque beads	
Total exchange capacity	≥ 0.8 eq/L	
Moisture holding capacity	66 – 72 %	
Shipping weight	700 kg/m ³	(43.7 lb/ft ³)
Particle size		
Screen grading	0.3 – 1.18 mm	(16 – 50 mesh US Std Screens)
Fines content	< 0.355 mm: 1% maximum	

Suggested Operating Conditions

Maximum operating temperature	40°C	(110°F)
Minimum bed depth	1000 mm	(36 inches)
Typical service flow rate	5 – 30 BV/h*	(0.5 – 4 gpm/ft ³)
Regenerant (for demineralization)	NaCl	
Concentration	10 %	
Minimum level	160 g/L	(10 lbs/ft ³)
Minimum contact time	60 minutes	

Commissioning and limits of use

AMBERLITE PWA9 resin is suitable for use in potable water applications after performing a full regeneration cycle at a dosage of 160 g of NaCl per liter of resin followed by an adequate rinse to remove excess of brine.

The operating capacity of AMBERLITE PWA9 resin depends on the operating conditions and the feed water conditions.

Regulatory

Please contact Dow Water and Process Solutions for 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 PWA9 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 PWA9 resin as a function of backwash flow rate and water temperature.

Figure 1 Pressure Drop (metric)

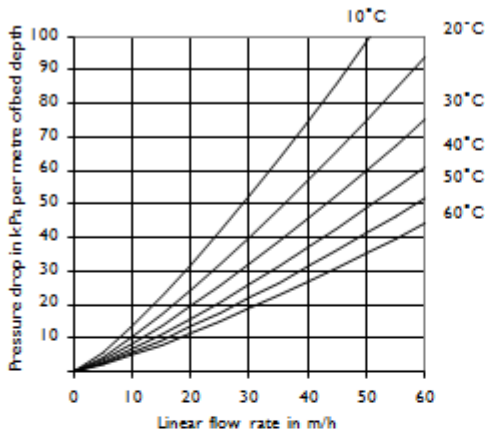


Figure 2 Pressure Drop (US units)

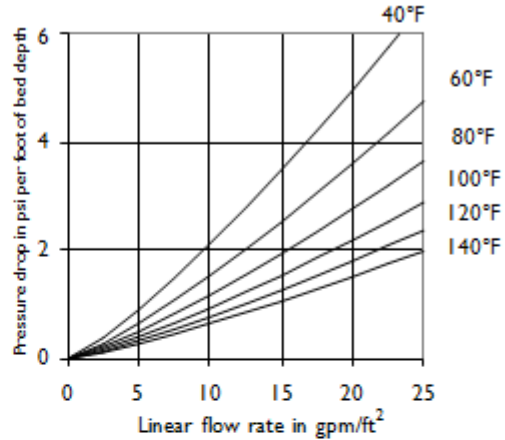


Figure 3 Bed Expansion (metric)

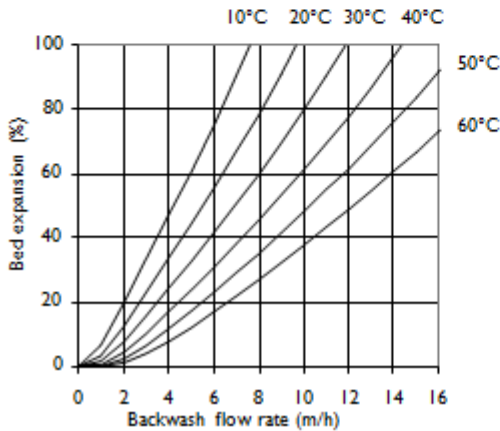
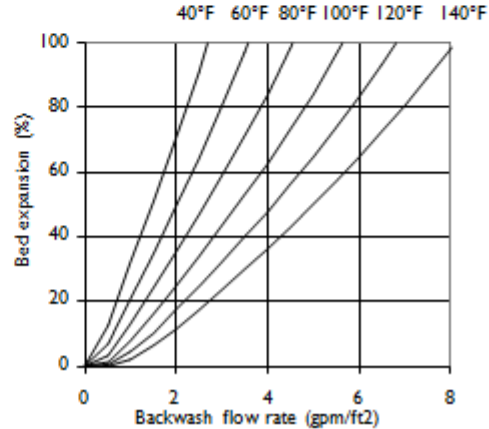


Figure 4 Bed Expansion (US units)



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

North America: 1-800-447-4369
 Latin America: (+55) 11-5188-9222
 Europe: +800-3-694-6367
 Italy: +800-783-825
 South Africa: +0800 99 5078
 Pacific: +8007776 7776
 China: +400 889-0789

<http://www.dowwaterandprocess.com>

Notice: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, 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 governmental enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow 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.

