



## AMBERSEP<sup>®</sup> 400 SO<sub>4</sub>

Industrial Grade Strong Base Anion Exchanger

### Introduction

AMBERSEP 400 SO<sub>4</sub> is a gel type, strongly basic, type 1 anion exchange resin with superior performance for uranium recovery. Its excellent selectivity for the uranyl sulphate ion over other anions, its high operating capacity, excellent mechanical and physical stability and its resistance to fouling make it the resin of choice. AMBERSEP 400 SO<sub>4</sub> is well suited for recovery of uranium from sulphuric acid leach systems using fixed beds, in situ leaching, fluidized beds or Resin In Pulp (RIP) applications.

AMBERSEP 400 SO<sub>4</sub> is supplied in the SO<sub>4</sub> form in order to minimize the presence of Cl<sup>-</sup> upon start-up.

If used in sulphuric acid leach systems, no preconditioning of this resin is required and the resin can be used as supplied.

### Properties

Matrix	Polystyrene divinylbenzene copolymer
Functional groups	Quaternary ammonium
Physical form	Translucent beads
Ionic form as shipped	SO <sub>4</sub> <sup>2-</sup>
Total exchange capacity	≥ 1.4 eq/L (SO <sub>4</sub> <sup>2-</sup> form)
Moisture holding capacity	40 to 47 % (SO <sub>4</sub> <sup>2-</sup> form)
Shipping weight	Approx. 730 g/L
Harmonic mean size	0.600 - 0.750 mm (0.650 mm)
Uniformity coefficient	≤ 1.6
Fine contents	< 0.500 mm : 1.0 %
Coarse beads	> 1.180 mm : 5 %

### Limits of use

Dow Water & Process Solutions manufactures special resins for food processing and potable water applications. As governmental regulations vary from country to country, it is recommended that potential users seek advice from their Rohm and Haas representative in order to determine the best resin choice and optimum operating conditions.

#### For more information about DOW<sup>™</sup> 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.

