

#### **Product Data Sheet**

## AMBERSEP™ 400 SO<sub>4</sub> Ion Exchange Resin

Industrial-grade Strong Base Anion Exchanger

## **Description**

AMBERSEP™ 400 SO<sub>4</sub> Ion Exchange Resin is a gel, Type I strong basic anion exchange resin with outstanding performance for uranium recovery. Its excellent selectivity for the uranyl sulfate ion over other anions, 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 the recovery of uranium from sulfuric 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 sulfate form in order to minimize the presence of chloride upon start-up.

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

## **Applications**

- Uranium extraction from sulfuric acid leach systems
  - Fixed beds
  - In situ leaching
  - Fluidized beds
  - Resin In Pulp (RIP) systems

# **Typical Properties**

Styrene-divinylbenzene
Gel
Strong base anion, Type I
Trimethylammonium
Amber, translucent, spherical beads
SO <sub>4</sub> <sup>2-</sup>
≥ 1.40 eq/L (Cl <sup>-</sup> form)
40 – 47% (Cl <sup>-</sup> form)
600 – 750 μm
≤ 1.60
≤ 1.0%
≤ 5.0%
730 g/L

<sup>§</sup> For additional particle size information, please refer to the Particle Size Distribution Cross Reference Chart (Form No. 177-01775).

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## 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.

### Have a question? Contact us at:

www.dupont.com/water/contact-us

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