

PRODUCT DATA SHEET

Purolite® PCA441SO4

Polystyrenic Gel, Type I Strong Base
Anion Resin, Sulfate form,
Chromatographic Grade

PRINCIPAL APPLICATIONS

- Chromatography - Sugar
- Cellulose Hydrolyzate
- Xylose Enrichment

ADVANTAGES

- Efficient separation
- Excellent mechanical, osmotic, and chemical stability

SYSTEMS

- Simulated Moving Bed
Chromatographic Systems

TYPICAL PACKAGING

- 35 ft³ Supersack
- 42 ft³ Supersack
- Bulk Tanker (NA only)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic Form	Cl ⁻ form
Total Capacity	1.4 eq/L (30.6 Kgr/ft³) (Cl ⁻ form)
Moisture Retention	47 - 51 % (Cl ⁻ form)
Particle Size Range	250 - 350 µm
Mean Diameter	300 ± 15 µm
Reversible Swelling, Cl ⁻ → OH ⁻ (max.)	25 %
Specific Gravity	1.08 (approximately)
Shipping Weight (approx.)	670 - 710 g/L (41.9 - 44.4 lb/ft³)
Temperature Limit	100 °C (212.0 °F) (Cl ⁻ form)
Temperature Limit	60 °C (140.0 °F) (OH ⁻ form)



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