

Certificate of Analysis

Product Name: Strong Acid Cation Exchange Resin (Sulfonic Acid Type)

Product Information

Product Number: SACR-CAS39339850-202602 Batch Number: SACR-2028021001 Brand: SIGALD
CAS Number: 39339-85-0 MDL Number: MFCD00144255 Formula:
(C₈ H₈ · C₁₀ H₁₀)_n · (C₆ H₄SO₃H)_m (Styrene-DVB Copolymer with Sulfonic Acid Groups)
Formula Weight: 100000-200000 g/mol (Polymer) Quality Release Date: 10 FEB 2025

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Light yellow to amber spherical beads. uniform	Light yellow spherical beads. no	Visual Inspection
Total Exchange Capacity (Dry)	≥ 4.5 mmol/g	4.8 mmol/g	GB/T 13659-2008
Moisture Content	45-55%	49%	Gravimetric Method
Particle Size Range (0.315- 1.25 mm)	≥ 95%	97%	Screening Method
Wet True Density (25°C)	1.20-1.30 g/cm ³	1.24 g/cm ³	Pycnometer Method
Mechanical Strength (Wear Rate)	≤ 2.0%	1.2%	GB/T 13659-2008
Total Iron Content	≤ 0.03%	0.015%	1,10-Phenanthroline Spectrophotometry
Uniformity Coefficient	≤ 1.6	1.4	Screening Method
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with industrial standards for strong acid cation resin and meets all specified requirements. It is qualified for use.

Issue Date: 10 FEB 2025