

2731 Bartram Road Bristol, PA 19007-6893 800.385.3153 www.unitedchem.com www.unitedchem.com

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CHEMICAL: SILICA TYPE: LOT NUMBER:

CSDAU C8 + Benzyl Sulfonic Acid Irregular particles 40-63 micron, 60 Angstrom pores 328060-BG

		Specification Values		<u>Lot Analysis</u>
Test	Method	<u>Min</u>	Max	
Appearance	Visual	White Fine Powder		White Fine Powder
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m ² /g)	SOP82-4.042	470	530	503m ² /g
Pore Volume (cm^3/g)	SOP82-4.042	0.70	0.85	$0.70 \text{ cm}^3/\text{g}$
Carbon Analysis by Weight	SOP82-4.024	12.00%	12.80%	12.25%
(Organic Loading)				
Cation Exchange	SOP82-4.025	0.065meq/g	0.088meq/g	0.067meq/g
%Recovery - Acid	SOP82-4.011	85.00%	110.0%	Pass
%Recovery - Neutral	SOP82-4.011	85.00%	110.0%	Pass
%Recovery - Base	SOP82-4.011	85.00%	110.0%	Pass

The shelf life is only valid if the material is stored in the original unopened container. The specifications and lot analysis are only valid using the listed methods. The test methods and specifications were current when the product was lotted.

CERTIFIED BY:

NAME: L. Bender

TITLE: QC Analyst

Certificate issue DATE: 06/15/2023

2731 Bartram Road / Bristol, PA 19007 USA / Phone 215-781-9255 / Fax 215-785-1226 Email: info@unitedchem.com Internet: HTTP://www.unitedchem.com