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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CUBCX1
CHEMICAL: Benzenesulfonic Acid
SILICA TYPE: Irregular particles 40-63 micron 60 Angstrom pores
LOT NUMBER: 320270-EE

<u>Test</u>	<u>Method</u>	<u>Specification Values</u>		<u>Lot Analysis</u>
		<u>Min</u>	<u>Max</u>	
Appearance	Visual	White/Off white Powder		Conforms
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m ² /g)	SOP82-4.042	470	530	503 m ² /g
Pore Volume (cm ³ /g)	SOP82-4.042	0.70	0.85	0.70 cm ³ /g
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	9.28%	12.10%	9.77%
Cation Exchange	SOP82-4.025	0.307meq/g	0.341meq/g	0.31meq/g
Extraction	SOP82-4.011	85.00%	110.0%	passed

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: 08/02/2023

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