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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** ECUNIPAH  
**CHEMICAL:** OCTADECYL UNENDCAPPED BONDED SILICA  
**SILICA TYPE:** Irregular particles 40-63 micron, 60 Angstrom pores  
**LOT NUMBER:** 043441-XM

<u>Test</u>	<u>Method</u>	<u>Specification Values</u>		<u>Lot Analysis</u>
		<u>Min</u>	<u>Max</u>	
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m <sup>2</sup> /g)	SOP82-4.042	470	530	493m <sup>2</sup> /g
Pore Volume (cm <sup>3</sup> /g)	SOP82-4.042	0.70	0.85	0.76 cm <sup>3</sup> /g
pH	Supplier	6.5	7.5	7.0
<b>EUC18</b>				
Appearance	Visual	White Fine Powder		White Fine Powder
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	20.5%	22.20%	21.12%

*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:** 06/26/2019

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