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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:** 044100-XN

<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%	21.23%

*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:** D. Kearns

**TITLE:** QC ANALYST

**Certificate issue DATE:** 07/18/2019

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