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McC Creath

SAMPLING | INSPECTION | ANALYSIS | CONSULTING

REAL Testing.
Measured RESULTS.



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Certificate of Analysis

B/L Date: November 12, 2024 Loading Port: Portland, Oregon USA Lab Number: H24111510

Description of Goods: Soda Ash Medium Dense Vessel Name: M/V Aloni

Shipper: ANSAC Destination Port: Pyeongtaek, Korea

<u>Test</u>	<u>Results</u>	<u>Guarantee</u>
Moisture	0.03	
Assay as Na ₂ O % wt	58.25	
Assay as Na ₂ CO ₃ % wt	99.48	99.2% Min
Sulfate as Na ₂ SO ₄ % wt	0.005	0.2% Max
Iron	3 ppm	20 ppm Max
Chloride as NaCl % wt	0.005	0.1% Max
Water Insoluble Matter % wt	0.02	0.05% Max
Loss at 250°C % wt	0.13	
Heavy Metals as Lead (Pb) ppm	<5	
pH of 1% Solution	11.62	
Bulk Density, g/cm ³	0.78	0.70-0.86 g/cm ³
Bulk Density, lbs/ft ³	48.67	44-54 lb/ft ³

<u>Sieve Analysis</u>	<u>Retained % wt</u>	<u>Cumulative % wt</u>	<u>Passing % wt</u>	<u>Guarantee</u>
Sieve No.				
20	0.0	0.0	100.0	
25	0.1	0.1	99.9	
30	0.6	0.7	99.3	
40	7.2	7.9	92.1	25.0% Max Cumulative
50	27.8	35.7	64.3	
80	23.6	59.3	40.7	
100	32.7	92.0	8.0	75.0% Min Cumulative
140	7.2	99.2	0.8	
200	0.6	99.8	0.2	93.0% Min Cumulative
Pan	0.2	100.0	0.0	

Yours very truly,
ANDREW S. McCREATH & SON, INC.

Robert E. Kozicki

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End of report