

Certificate of Analysis

Date: April 15, 2016
Product: Sodium Carbonate
Batch Number: 0001359094

PROPERTY	SPECIFICATION	RESULT
Iron (as Fe ₂ O ₃)	100.0 ppm max	3.3
Loss on Ignition, 250 oC	0.80% max	0.29
Sodium Chloride (as NaCl)	0.150% max	0.044
Sodium Sulphate (as Na ₂ SO ₄)	0.150% max	0.006
Total Alkalinity (as Na ₂ CO ₃)	99.00 – 100.00%	99.72
Total Alkalinity (as Na ₂ O)	57.50 -58.50%	58.32
Alkalinity (as Na ₂ CO ₃), dried	99.50 – 100.50%	99.85
Bulk Density, lbs/ft ³	Record Only	51.6
US +20 Mesh, Cumulative %	Record Only	0.0
US +30 Mesh, Cumulative %	Record Only	1.7
US +40 Mesh, Cumulative %	Record Only	11.3
US +50 Mesh, Cumulative %	Record Only	50.2
US +70 Mesh, Cumulative %	Record Only	70.7
US +80 Mesh, Cumulative %	Record Only	81.1
US +100 Mesh, Cumulative %	Record Only	86.1
US +140 Mesh, Cumulative %	Record Only	95.0
US +200 Mesh, Cumulative %	Record Only	98.6
US -200 Mesh, %	Record Only	1.4

Sandra Wallace

Analyst

May 23, 2016

Date

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