



Tronox Specialty Alkali Corporation
1735 Market Street
Philadelphia PA 19103

CUSTOMER CONTACT & FAX

FOR CUSTOMER SERVICE PLEASE CALL: 1-800-323-7107

Certificate of Analysis

Shipped to: DUDA ENERGY LLC 1112 BROOKS ST SE DECATUR AL 35601	Order # : 1921836 Delivery # : 4707669 Customer PO : 215 NET WEIGHT : 29,400 LB
Fax to: diesel Ship Date: 06-Jan-2016	Certificate Date : 14-Jan-2016

Product: USP NO.1 SODIUM BICARB 50 LB BG

Retest Date of 3 Years from the Manufacturing Date on the COA, Not Intended for Active Pharmaceutical Ingredient (API) Use.

PROPERTY INSPECTION METHOD	SPECIFICATION	BATCH: 0001373098 MFG. DATE: 01-Jan-2016	BATCH: 0001373379 MFG. DATE: 04-Jan-2016
Container Identification		16-001	16-004
Ammonia, Pass/Fail, 20 ppm max		PASS	PASS
Arsenic, USP, 2 ppm max		PASS	PASS
Sodium Bicarbonate, NaHCO ₃ , %	99.00 - 100.50	100.25	99.99
Bicarbonate Ion, USP, P/F		PASS	PASS
Calcium, as Ca, ppm		50	44
Chloride, USP Test, 150ppm max		PASS	PASS
Heavy Metals, USP, 5 ppm max.		PASS	PASS
Insolubles, USP (Pass/Fail)		PASS	PASS
Loss on drying, %	0.25 Max	0.00	0.00
Magnesium, as Mg, ppm		19	18
Normal Carbonate, USP, Pass/Fail		PASS	PASS
Sodium ion, USP, P/F		PASS	PASS
Sulfur Compounds, 150 ppm max		PASS	PASS
Bulk Density, lbs/ft ³		62.1	61.7
US + 100 Mesh, Cumulative %	0.0 - 2.0	0.2	0.0
US + 200 Mesh, Cumulative %	20.0 - 45.0	27.0	28.6

Authorized By:

Manufacturing Location:
Tronox Alkali Corporation
Highway 374
P.O. Box 872
Green River, WY 82935
U.S.A



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PROPERTY INSPECTION METHOD	SPECIFICATION	BATCH: 0001373098 MFG. DATE: 01-Jan-2016	BATCH: 0001373379 MFG. DATE: 04-Jan-2016
US + 325 Mesh, Cumulative %	60.0 - 100.0	69.4	73.4

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