

## CERTIFICATE OF ANALYSIS NATURAL SODIUM SULFATE ▼

Cooper Natural Resources Cedar Lake Facility Sodium Sulfate P.O. Box 1477 Seagraves, Texas 79359 Phone: (806) 487-6461

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Date of Manufacture:

12/13/16

Product:

STANDARD GRADE

Custo	mer:	BRE	NNTAG N	IID-SOUTH	1				Control # Bagger⊁
	СНЕМІС	AL ANA	ALYSIS		TRACE METAL ANALYSIS				NOTES
Analyte		Spec	Actual	Element		Max	Actual	Note #1: These values are from weekly statistical	
Purity (% Na <sub>2</sub> SO <sub>4</sub> )#3		99.0 min	99.7	Fe (ppm)#1		10	3	control data.	
NaCl (	NaCl (%)#2		0.7 max	0.27					
Water I	Water Insoluble (%)#1		0.2 max	0.01					Note # 2: These values are from analysis of
Na <sub>2</sub> CO	Na <sub>2</sub> CO <sub>3</sub> (%) #4		0.5 max	0.005					samples taken from this shipment.
As(ppm) # 4			0.23						
					PHY	SICAL P	ROPERT	IES	Note # 3: Na <sub>2</sub> SO <sub>4</sub> is determined by difference
				pH (5% Solution)				(100 minus insoluble, minus MgSO <sub>4</sub> , minus	
				27°C				NaCl).	
					80°C				
170					Density (lbs/ft <sup>3</sup> ) #2			89.2	Note # 4: Taken from quarterly statistical control
Optical Brightness					Moisture (%) #1		0.2	0.01	analyses.
					Appearance		white, crystalline		
SCREEN ANALYSIS									NOTES
Screen # Retain			ed On Sc	reen (%)	Cumulative % Reta		tained		
		Custom	ner Specs		Customer Spec Sheet, Revision Date:		ner Spec Sheet, Revision Date:6/13/06		
U.S.	Tyler	Min	Max	Actual	Min	Max	Actual		
20				0.0%			0.0%		
40				0.2%			0.2%		
60				9.5%			9.8%		
80				20.2%			29.9%		
100				20.1%			50.1%		· .
140				21.2%			71.3%		
200				11.6%			82.9%		
-200				17.1%			100.0%		
ТС	TOTAL			100.0%					

Comments: This product is certified to meet the limits of impurities (heavy metals, arsenic and selenium) of the Food Chemicals Codex Tenth Edition-Specifications.

REVIEWED BY

RLK ANALYZED BY