



MINERA DE SANTA MARTA, S.A.

## SPECIFICATION

<b>Product:</b>	<b>NATURAL ANHYDROUS SODIUM SULPHATE</b>
<b>Type:</b>	<b>Na-G10 (Coarse)</b>

Chemical Formula: <b>Na<sub>2</sub>SO<sub>4</sub></b>	REV.: 3	Belorado Plant	October 2015
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	Parameter	Standard Product	Limit	Test/Method
1	Appearance	Coarse quality product free from foreign materials		Visual inspection
2	Na <sub>2</sub> SO <sub>4</sub>	99.80 %	99.50 % minimum	IT01
3	Moisture content	0.02 %	0.05 % maximum	IT02
4	Chloride (Cl <sup>-</sup> )	0.06 %	0.18 % maximum	IT03
5	Calcium (Ca <sup>2+</sup> )	0.01 %	0.03 % maximum	IT04
6	Magnesium (Mg <sup>2+</sup> )	0.01 %	0.03 % maximum	IT04
7	Acid insoluble	0.005 %	0.01 % maximum	IT05
8	pH (1%)	7.00	± 1.00	IT06
9	Bulk density	1500 kg/m <sup>3</sup>	± 100	IT07
10	Colour (CIE)	L*	96	IT08
		a*	0,0	
		b*	2,5	
<b>TRACE METALS</b>				
11	Iron (Fe)	1 ppm	3 ppm maximum	IT09
	Chromium (Cr)	<1 ppm	2 ppm maximum	
<b>PARTICLE SIZE DISTRIBUTION</b>				
12	Above to 1500 µm		0 %	IT10
	Above to 600 µm		55 % minimum	
	Below 250 µm		1 % maximum	
	Mean size		730 ± 80 microns	

**Issued by Quality Coordinator**

**Approved by Commercial Director**