




<b>Product Specification Approval Form</b>			
<b>Product</b>	<b>Anhydrous Sodium Carbonate Light Grade (UK)</b>		
<b>Specification reference</b>	<b>Version</b>	<b>Change Control Number</b>	<b>Pages Attached</b>
SS/LA.001	04	2019_08	1

	<b>Name</b>	<b>Position</b>	<b>Signed</b>	<b>Date</b>
<b>Commercial</b>	Craig Thornhill	Head of Soda Ash Sales		29/10/19
<b>Operations</b>	Steve Mcguinness	Senior Plant Manager Ammonia Soda		
<b>Quality</b>	Mark Cooper	Head of Quality		29 OCT 19

<b>Copy location:</b>	<b>Issued by:</b>	<b>Date:</b>
<b>Review Date:</b>	<b>Signature:</b>	



Reference : SS/LA.001  
 Issue No. : 4  
 Dated : 29 Oct 2019

# sales specification

## ANHYDROUS SODIUM CARBONATE

### LIGHT GRADE (UK)

### CHEMICAL COMPOSITION

						<i>Typical</i>
Total Alkali	Na <sub>2</sub> CO <sub>3</sub>	%	:	99.00	MIN.	99.72
Total Alkali	Na <sub>2</sub> O	%	:	57.90	MIN.	58.33
Bicarbonate	NaHCO <sub>3</sub>	%	:	0.70	MAX.	0.17
Moisture (loss on heating )		%	:	0.50	MAX.	0.18
Insolubles in water @ 20 °C.		mg/kg	:	200	MAX.	105
Chloride	NaCl	%	:	0.30	MAX.	0.23
Sulphate	Na <sub>2</sub> SO <sub>4</sub>	mg/kg	:	400	MAX.	135
Iron	Fe <sub>2</sub> O <sub>3</sub>	mg/kg	:	30	MAX.	9
Fluoride	F	mg/kg	:	15	MAX.	<2*
Arsenic	As	mg/kg	:	1	MAX.	<0.1*
Cadmium	Cd	mg/kg	:	1	MAX.	<0.02*
Chromium	Cr	mg/kg	:	1	MAX.	<0.1*
Cobalt	Co	mg/kg	:	1	MAX.	<0.1*
Copper	Cu	mg/kg	:	1	MAX.	<0.1*
Lead	Pb	mg/kg	:	1	MAX.	<0.2*
Manganese	Mn	mg/kg	:	1	MAX.	<0.1*
Mercury	Hg	mg/kg	:	0.1	MAX.	<0.002*
Nickel	Ni	mg/kg	:	1	MAX.	<0.1*
Titanium	Ti	mg/kg	:	1	MAX.	<0.2*
Vanadium	V	mg/kg	:	1	MAX.	<0.1*

\*Actual level is below the limit of detection

### PHYSICAL PROPERTIES

Pouring Density	kg/m <sup>3</sup>	480	MIN.	549
		600	MAX.	

#### Particle Size

<u>Sieve Fraction (microns)</u>	<u>Typical % by Weight</u>
>2800	0.4
425 – 2800	1.95
125 – 425	23.34
63 – 125	46.06
<63	22.78

Average Median Size (microns)      100 +/-20

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