



Reference : SS/RB.001  
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# sales specification

## SODIUM BICARBONATE

### EP/USP GRADES

#### PRODUCT DESCRIPTION

Sodium Bicarbonate of Pharmaceutical and Food Chemical Codex grade quality is available in a range of grades specified by their particle size.

#### IDENTIFICATION

Gives reactions characteristic of sodium salts and of bicarbonates.

#### CHEMICAL COMPOSITION

						<i>Typical</i>
Sodium Bicarbonate Assay	NaHCO <sub>3</sub>	%	:	99.0	MIN.	
				100.5	MAX..	99.87
Carbonate	CO <sub>3</sub>	%	:	0.23	MAX..	0.065
Loss on Drying	Wt. Loss	%	:	0.25	MAX..	< 0.01
Ammonium	NH <sub>4</sub>	mg/kg	:	20	MAX..	<20
Arsenic	As	mg/kg	:	2	MAX..	<0.1
Calcium	Ca	mg/kg	:	100	MAX..	75
Chloride	Cl	mg/kg	:	150	MAX..	65
Heavy Metals (as Lead)	Pb	mg/kg	:	5	MAX..	<5
Lead	Pb	mg/kg	:	2	MAX	<1
Iron	Fe	mg/kg	:	20	MAX..	2.6
Sulphate	SO <sub>4</sub>	mg/kg	:	150	MAX..	40
pH of a freshly prepared 5% Solution			:	8.6	MAX..	8.01

Insoluble Substances

1 g. dissolves completely in 20ml. of water to give a clear solution

#### PARTICLE SIZE

Grade		Sieve Fraction (microns)	*%Max. by Weight	Average Median Size (microns)
Powder Fine	Retained on	125	10.0	65
	Extra Fine	250	0.2	40
	Retained on	125	2.0	
Fine Granular	Retained on	63	25.0	
	Fine Granular	212	1.0	105
	Retained on	125	28.5	
Medium Granular	Passing	75	15.0	
	Medium Granular	250	5.0	140
	Retained on	63	15.0	
Coarse Granular	Coarse Granular	250	5.0	180
	Retained on	125	13.0	
	Passing			
Ultra Coarse Granular	Ultra Coarse Granular	710	5.0	285
	Total	250	15.0 – 60.0	
	Passing			
	Passing	150	15.0	

\* Limits expressed as non-cumulative values



TATA CHEMICALS EUROPE LIMITED

Winnington Lane, Northwich, Cheshire, CW8 4DT, United Kingdom  
Tel +44 (0) 1606 724000 Fax +44(0) 1606 781353 www.tatachemicals.com