



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

						<u>Typical</u>
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

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

\* Limits expressed as non-cumulative values



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