

**GHCL Limited - Light Soda Ash**

SR. NO.	CHARACTERISTICS	SPECIFICATION		TYPICAL	U. O. M.
		GUARANTEED			
		Chemical Grade	Detergent Grade		
1	Description	White, uniform product, free from dirt & other foreign matter	White, uniform product, free from dirt & other foreign matter	White, uniform product, free from dirt & other foreign matter	
2	Total alkalinity as Na <sub>2</sub> CO <sub>3</sub> (Min)	99	98.5	99.2	% by mass
3	Chloride as NaCl (Max)	0.80 (0.3 +/- 0.1 in case of low chloride)	0.80	0.36	% by mass
4	Fe <sub>2</sub> O <sub>3</sub> (Max)	60	60	15	ppm
5	Bulk Density	500-750	500-750	680	gram / litre
6	Sulphate as Na <sub>2</sub> SO <sub>4</sub> (Max)	0.02	0.02	0.008	% by mass
7	Volatile Matter (Max)	0.7	0.7	0.5	% by mass
8	Matter insoluble in Water (Max)	0.02	0.02	0.004	% by mass
9	Particle Size Distribution :				
	+0.500mm	-	2.5	2.2	% by mass
	+0.250mm	-	6	5.7	% by mass

**GHCL Limited - Dense Soda Ash (Alpha Grade)**

SR. NO.	CHARACTERISTICS	SPECIFICATION		U.O.M
		Guaranteed	Typical	
1	Description	White, crystalline product, free from dirt & other foreign matter	White, crystalline product, free from dirt & other foreign matter	-
2	Total alkalinity as Na <sub>2</sub> CO <sub>3</sub> (Min)	99	99.2	% by mass
3	Chloride as NaCl	0.4+/-0.1	0.3 - 0.4	% by mass
4	Fe <sub>2</sub> O <sub>3</sub> (Max.)	30	15	ppm
5	Bulk Density	951-1250	950-1100	Gram / litre
6	Sulphate as Na <sub>2</sub> SO <sub>4</sub> (Max)	0.02	0.008	% by mass
7	Volatile matter including moisture, (Max)	0.7	0.5	% by mass
8	Matter insoluble in water (Max)	0.02	0.004	% by mass
9	Lightness Factor *			
	L - value (min)	90	-	-
	b - value (max)	(+)-2.5	-	-
10	<b>Particle Size Distribution</b>			
a)	+0.850mm (max)	20	15	% by mass
b)	- 0.150mm (max)	2.5	2	% by mass



## GHCL Limited - Sodium Bicarbonate (Food Grade)

SR. NO.	CHARACTERISTICS	SPECIFICATION GUARANTEED	U.O.M.
1	Description	White, Minutely Crystalline Powder, Free from dirt and other foreign matter	
2	Total Alkalinity(as NaHCO <sub>3</sub> ) Min.	99.6	%by mass
3	pH (1% Solution) Max.	8.4	-
4	Chloride (as Cl) Max.	0.04	%by mass
5	Insoluble Matter Max.	0.05	%by mass
6	Sulphate (as SO <sub>4</sub> ) Max.	0.05	%by mass
7	Iron (as Fe) Max.	0.0020	%by mass
8	Heavy Metal (as Pb) Max.	5	ppm
9	Arsenic (as As) Max.	1.5	ppm
10	Copper (as Cu) Max.	30	ppm



## GHCL Limited - Sodium Bicarbonate (Technical Grade)

SR. NO.	CHARACTERISTICS	SPECIFICATION GUARANTEED	U.O.M.
1	Description	White, Minutely Crystalline Powder, Free from dirt and other foreign matter	
2	Total Alkalinity(as NaHCO <sub>3</sub> ) Min.	99.00	%by mass
3	pH (1% solution) Max.	8.8	-
4	Chloride (as Cl) Max.	0.06	%by mass
5	Insoluble Matter Max.	0.1	%by mass
6	Sulphate (as SO <sub>4</sub> ) Max.	0.07	%by mass
7	Iron (as Fe) Max.	0.0040	%by mass
8	Heavy Metal (as Pb) Max.	5	ppm
9	Arsenic (as As) Max.	1.5	ppm
10	Copper (as Cu) Max.	30	ppm