

DENSE SODA ASH

Chemical Formula	:	Na₂CO₃	
Structural Formula	:	$ \begin{array}{c} \text{O} \\ \\ \text{Na} - \text{O} - \text{C} - \text{O} - \text{Na} \end{array} $	
Common names	:	Sodium carbonate, calcined soda, disodium carbonate	
CAS Registry Number	:	497-19-8	

The synthetic soda ash is produced using the ammonia-soda process, popularly known as the Solvay process. Common salt and limestone are the raw materials processed and converted into soda ash and calcium chloride.

Physical & Chemical Properties :

Characteristics	Units	IS 251 : 1998 Specifications	TCL Assured Specifications
Molecular Weight			106
Bulk Density	Kg/m ³	951 - 1250	1000 - 1200
Volatile matter content (at the time of packing)	%, max	2	0.80
Total Alkalinity (as Na ₂ CO ₃)	%, min	98.5	99.0
Sulphates (as Na ₂ SO ₄)	%, max	0.08	0.03
Chlorides (as NaCl)	%, max	1.0	0.80
Iron (as Fe ₂ O ₃)	By Colorimetric method		0.0029
	By Spectrophotometric method	%, max	0.007
Matter insoluble in water	%, max	0.15	0.03
Sieve Analysis :			
<i>BS Mesh</i>	<i>Microns</i>		
+ 10	+ 1700	%, max	1.0
- 200	- 75		15.0
			1.0
			5.0

Dense Soda Ash is a white, odorless, uniform product, free from dirt and other foreign matter. Soda Ash has a tendency to absorb moisture from the atmosphere. The moist Soda Ash then starts absorbing the atmospheric carbon dioxide. This phenomenon of absorption of moisture and carbon dioxide by Soda Ash is known as weathering. After such weathering, Soda Ash is likely to contain appreciable moisture and sodium bicarbonate. However, the total alkali content of the bag does not change. Soda Ash has a tendency to cake when in contact with moisture and consequently becomes lumpy.

Applications :

Dense Soda Ash is one of the most important basic industrial chemicals and thus finds use in glass, silicate, ultramarine, bichromate and other industries.

Packaging :

Available in 50 kg HDPE/PP bags and 1 MT PP jumbo bags with lamination/liner

Storage :

Soda Ash should be stored under cover in a cool, dry place and the bags should not be stacked more than 15 high.

Additional information required can be provided from our Corporate/Regional offices.

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