

TATA CHEMICALS LIMITED


*Serving Society
through Science*

DENSE SODA ASH

Chemical Formula	: Na_2CO_3
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

Light Soda Ash synthetically produced by ammonia-soda process (Solvay process) is subsequently mechanically compacted at high pressure to form briquettes, which then disintegrated, sieved and classified to produce specified uniform particle sized Dense Soda Ash. Dense Soda Ash is also produced through Monohydrate process at TCL.

Applications

Dense Soda Ash is one of the most important basic industrial chemical and thus finds use in all kinds of glass manufacture like sheet glass, float glass, configured glass, container glass (bottles and tableware) etc.. Dense Soda Ash is also a major component in production of light bulbs, tubes, glass fibre

Specifications*

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_2CO_3)	%, min	98.5	99.0
Sulphates (as Na_2SO_4)	%, max	0.08	0.03
Chlorides (as NaCl)	%, max	1.0	0.80
Iron (as Fe_2O_3)	By Colorimetric method		0.0029
	By Spectrophotometric method	%, max	0.007
Matter insoluble in water	%, max	0.15	0.03
Sieve Analysis : BS Mesh	Microns		
+ 10	+ 1700	%, max	1.0
- 200	- 75		15.0

Traceability

Tata Chemicals Ltd. offers full product traceability with batch and lot no. labelling.

Packaging