

# Soda Ash Granular

## Soda Ash Granular:

**Chemical formula:** Na<sub>2</sub>CO<sub>3</sub>

**Structural formula:** Na -- O -- C -- O -- Na  
                                  | |  
                                  O

**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 and chemical properties :

Soda Ash Granular is a white, odourless, uniform product, free from dirt and other foreign matter. Soda ash granular has a tendency to absorb moisture from the atmosphere. The moist soda ash then starts absorbing 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, but 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.

Characteristics		Units	TCL-assured specifications
Molecular weight			106
Bulk density		Kg/m <sup>3</sup>	951 - 1250
Volatile matter content (at the time of packing)		%, max	0.80
Total alkalinity (as Na <sub>2</sub> CO <sub>3</sub> )		%, min	99.0
Sulphates (as Na <sub>2</sub> SO <sub>4</sub> )		%, max	0.03
Chlorides (as NaCl)		%, max	0.80
Iron (as Fe <sub>2</sub> O <sub>3</sub> )	By colorimetric method	%, max	0.0029
	By spectrophotometric method		0.003
Matter insoluble in water		%, max	0.03
Sieve Analysis (BSS):			10.0
Mesh	Microns	%, max	15.0
+4	+4000		
-14	-1180		

## Applications :

Soda Ash Granular is finds use in steel industries and is used in blast furnace for removal of sulphur from iron ore. It also imparts fluidity to the slag. Thus ensuring smoother and continuous blast furnace operation. It is also used in jaggery (gur) industries.

## Packaging :

Available in 50 kg HDPE / PP bags with lamination.

## Storage :

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



*Guljag Industries Limited*

Nahata Bhawan, Chopasani Road, Jodhpur - 342003, Rajasthan, (INDIA)  
Phone : + 91-0291-2435581, 3290403 Fax : + 91-0291-2114209 Email : [scd@guljag.com](mailto:scd@guljag.com)