

Soda Ash Dense

Soda Ash Dense Formula :

Chemical formula: Na₂CO₃



Structural formula: Na -- O -- C -- O -- Na

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 Dense is a white, odourless and 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 atmospheric carbon dioxide. This phenomenon of absorption of moisture and carbon dioxide is known as weathering. After weathering, soda ash is likely to contain appreciable moisture and sodium bicarbonate, though its total alkali content does not change. Soda ash has a tendency to cake when it comes into contact with moisture and, consequently, becomes lumpy.

Characteristics		IS 251 : 1998 specifications	TCL-assured specifications	Units
Molecular weight			106	
Bulk density		951 – 1250	1000 - 1200	Kg/m ³
Volatile matter content (at the time of packing)		2	0.80	%, max
Total alkalinity (as Na ₂ CO ₃)		98.5	99.0	%, min
Sulphates (as Na ₂ SO ₄)		0.08	0.03	%, max
Chlorides (as NaCl)		1.0	0.80	%, max
Iron (as Fe ₂ O ₃)	By colorimetric method		0.0029	%, max
	By spectrophotometric method	0.007	0.002	
Matter insoluble in water		0.15	0.03	
Sieve analysis (BSS):				
Mesh	Microns			
+10	+1680	1.0	1.0	%, max
-200	-75	15.0	5.0	

Applications :

Soda Ash Dense is an important industrial chemical and is used in the manufacture of glass, silicates, ultramarine, bichromates and other industries.

Packaging :

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

Storage :

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



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