



Soda Ash Dense

Technical Data Sheet

Dense Ash

October 2019

99000101

Characteristics

Tata Chemicals' dense soda ash, or sodium carbonate (CAS name: disodium carbonate), is a white, granular, alkaline material.

Properties*

Chemical Formula	Na ₂ CO ₃
Molecular Weight	105.99
Absolute Density, g/cm ³ @ 25°C	2.533
Melting Point, °C	851
Solubility, max % @ 35.4°C	33.2
pH of 1% solution @ 25°C	11.34

*Properties of pure sodium carbonate

**See graph for solubility at other temperatures

Physical Properties

Sodium Carbonate (Na ₂ CO ₃) %	99.5 Min
Bulk Density: lb./ft. ³	62.4 – 68.6
GPL	1000 - 1100

Screen Analysis | Cumulative Weight Percent

On US30 (600 μm)	4 Max
US100 (150 μm)	85 Minimum
Thru US200 (75 μm)	2 Max

Chemical Properties

NaCl Weight %	0.04 Max
SiO ₂ %	0.03 Max
Organic Matter as C %	0.01 Max



Product Markets & Usage

Glass
Chemical Intermediates
Soap and Detergent Formulations
Water Treatment
Flue Gas Desulfurization
Pulp and Paper

Meets Product Requirements

AWWA B201-08
ANSI/ASTM 0458-85 (1998)
Federal Spec. O-S-571G (11/13/97)
NSF Standard 60 (Plant Certified 9/90)

HALAL
Kosher
ISO 9001:2015

Grades, Forms, and Shipping Containers (Dense Ash*)

Bulk hopper cars and trucks
50 lb. (22.7 kg) bags
One-ton Super Sacks

*Suitable for water treatment in accordance with AWWA Standard 0201-92 for soda ash

Production/Shipping Location

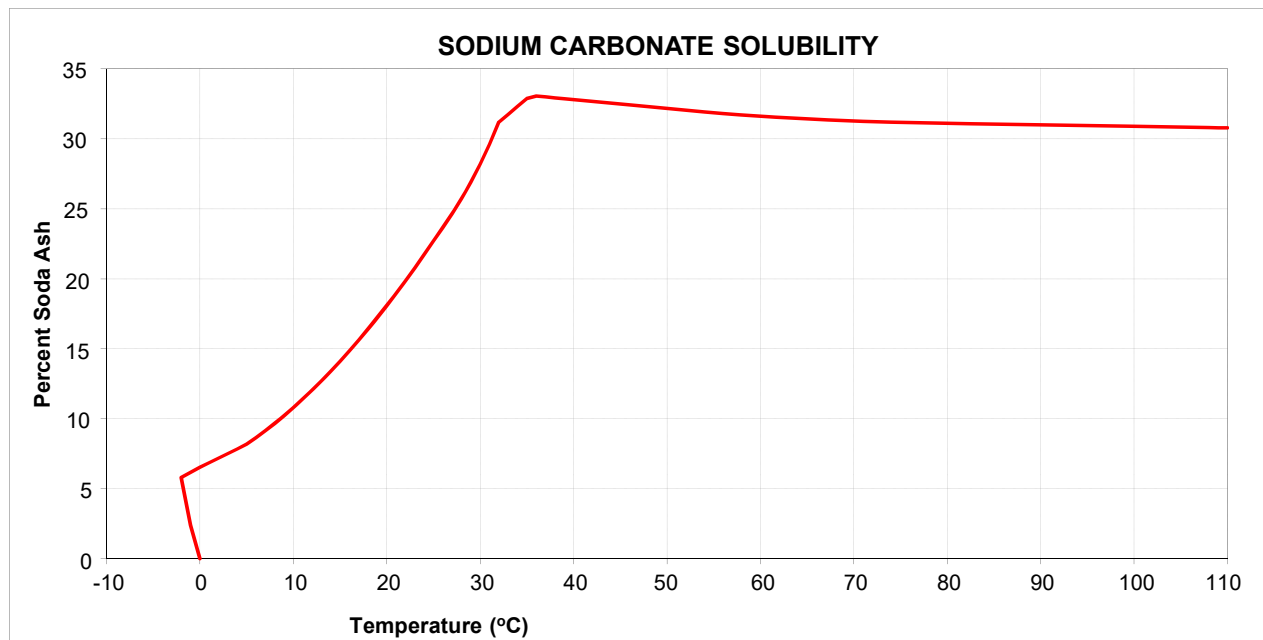
Green River, Wyoming

Shipping Regulations

Not Regulated



Solubility in Water



Product Safety Information

Soda ash may cause eye injury and skin irritation. May be harmful if swallowed.

As with any chemical, soda ash requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling it with the appropriate safety and handling precautions. This Information is available in the Material Safety Data Sheet, which may be obtained by contacting our Customer Service or Technical Service groups (see information below).

Product Information

To obtain additional information*, place an order, obtain samples or pricing, or check on availability, call us toll-free at (800)819-8568, or send written inquiries to our address below.

*soda ash Product Bulletin (NO. GC100DP)



TATA CHEMICALS NORTH AMERICA INC.

Disclaimer

All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representative or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter including without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Tata Chemicals is not engaged in the business of providing technical, operational engineering or safety information for a fee, and, therefore, any such provided herein has been furnished as an accommodation and without charge. All Information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Tata Chemicals shall not be responsible or liable for the use, application or Implementation of the Information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.