



# Soda Ash Dense

## Technical Data Sheet

### Dense Ash

098-0140 / 99000101

### Characteristics

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

### Properties\*

Chemical Formula	Na <sub>2</sub> CO <sub>3</sub>
Molecular Weight	105.99
Absolute Density, g/cm <sup>3</sup> @ 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 | Typical Specification

Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) %	99.9	99.5 Min
Bulk Density: lb./ft. <sup>3</sup>	64.4	62.4 – 68.6
GPL	1034	1000 - 1100

### Screen Analysis | Cumulative Weight Percent

On US30 (600 μm)	1.2	4 Max
US100 (150 μm)	92.3	85 Minimum
Thru US200 (75 μm)	1.0	2 Max

### Chemical Properties

NaCl Weight %	0.0066	0.02 Max
SiO <sub>2</sub> %	0.012	0.02 Max
Organic Matter as C %	0.0038	0.02 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)  
NF19  
HAUAL  
Kosher  
ISO 9001:2008

## 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

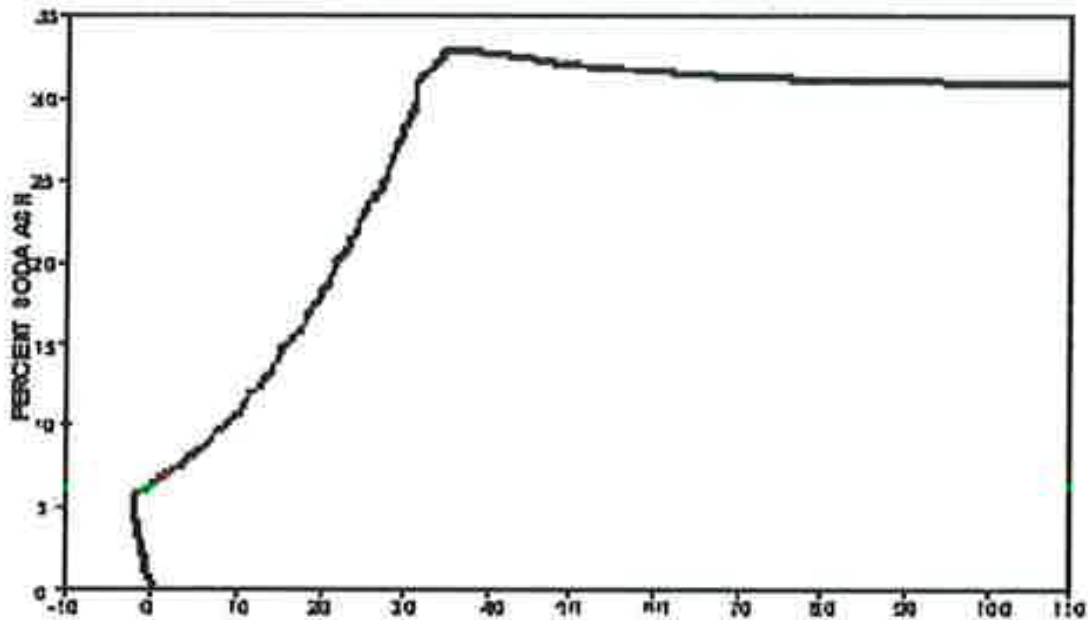
Green River, Wyoming

## 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).

In the event of an emergency with this product, call the 24-hour Tata Chemicals emergency number: (800) 819-8568.

## Product Safety 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.

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