

## Technical data

# WE Soda Dense Grade 280 Soda Ash

CAS No. 497-19-8

<b>Chemical Name</b>	Sodium Carbonate, anhydrous
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<b>CAS Name</b>	Disodium carbonate
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<b>Formula</b>	Na <sub>2</sub> CO <sub>3</sub>
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<b>Molecular Weight</b>	105.99
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## Physical Properties

	Typical	Specification
Bulk Density: lb/ft <sup>3</sup>	63.5	60.0 – 70.0
g/cm <sup>3</sup>	1.02	0.96 – 1.12
Particle Density, g/cm <sup>3</sup>	1.960	
Particle Shape	Blocky	
Angle of repose, deg	40	
Screen analysis, cumulative wt %		
On US 30(600 μm)	3.0	
US 40(425 μm)	20	27 max
US 100(150 μm)	90	
Thru US 200(75 μm)	2	7 max

## Chemical Properties

	Typical	Specification
Na <sub>2</sub> O, wt %	58.3	58.0 min
Na <sub>2</sub> CO <sub>3</sub> , wt %	99.7	99.2 min
Na <sub>2</sub> SO <sub>4</sub> , wt %	0.03	0.20 max
NaCl, wt %	0.08	0.20 max
Fe <sub>2</sub> O <sub>3</sub> , ppm	2	20 max
Water Insolubles, wt %	0.01	0.05 max
Ignition loss, wt %	0.1	0.8 max
Heavy metals as Pb, ppm	<10	10 max
Arsenic, as As, ppm	0.1	3 max
Calcium, as Ca, ppm	20	
Magnesium, as Mg, ppm	25	
SiO <sub>2</sub> , ppm	60	

## General Properties

Description	white granular solid
Melting point, °C (°F)	851 (1564)
Solubility, max % @ 35.4°C	33.2
pH, 1% solution @ 25°C	11.4

## Standard Containers

Bulk hopper cars

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