

Technical data

WE Soda Dense Soda Ash

CAS No. 497-19-8

Chemical Name		Sodium Carbonate, anhydrous	
CAS Name		Disodium carbonate	
Formula		Na ₂ CO ₃	
Molecular Weight		105.99	
Physical Properties			
		Typical	Specification
Bulk Density:	lb/ft ³	65	60 - 70
	g/cm ³	1.06	0.96 – 1.12
Particle Density, g/cm ³		1.960	
Particle Shape		Blocky	
Angle of repose, deg		40	
Screen analysis, cumulative wt %			
On	US 30(600 μm)	1.0	
	US 40(425 μm)	15	27 max
	US 100(150 μm)	85	
Thru	US 200(75 μm)	2	7 max
Chemical Properties			
		Typical	Specification
Na ₂ O, wt %		58.4	58.0 min
Na ₂ CO ₃ , wt %		99.8	99.2 min
Na ₂ SO ₄ , wt %		0.05	0.20 max
NaCl, wt %		0.06	0.20 max
Fe ₂ O ₃ , ppm		4	20 max
Water Insolubles, wt %		0.01	0.05 max
Ignition loss, wt %		0.1	0.8
Heavy metals as Pb, ppm		<10	10 max
Arsenic, as As, ppm		0.1	3 max
Calcium, as Ca, ppm		60	
Magnesium, as Mg, ppm		15	
SiO ₂ , ppm		75	
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 and trucks	

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