

Technical data

Genesis Alkali Grade 160 Soda Ash

CAS No. 497-19-8

Chemical Name Sodium Carbonate, anhydrous

CAS Name Disodium carbonate

Formula Na₂CO₃

Molecular Weight 105.99

Physical Properties

	Typical	Specification
Bulk Density: lb/ft ³	59	54 - 62
g/cm ³	0.95	0.86 - 0.99
Particle Density, g/cm ³	1.826	
Particle Shape	Needle-like	
Angle of repose, deg	52	
Screen analysis, cumulative wt %		
On US 30(600 μm)	0.5	
US 40(425 μm)	13	25 max
US 100(150 μm)	89	
Thru US 200(75 μm)	2	6 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 %	0.06	0.20 max
NaCl, wt %	0.03	0.20 max
Fe ₂ O ₃ , ppm	7	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, ppm	0.1	3 max

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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