

Technical data

Genesis Alkali Grade 100™

Light Density 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
Absorptivity, wt %	19	18 min
Bulk Density: lb/ft ³ g/cm ³	48 0.77	44 - 54 0.70 - 0.86
Screen analysis, cumulative wt %		
On US 30(600 μm)	1	
US 40(425 μm)	8	25 max
US 100(150 μm)	88	
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 %	0.04	0.10 max
NaCl, wt %	0.03	0.10 max
Fe ₂ O ₃ , ppm	7	20 max
Arsenic, ppm		3 max
Heavy metals as Pb, ppm		10 max
Water insolubles, wt %	0.01	0.05 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

50 lb (22.7 kg) bags
One ton super sacks
Bulk hopper cars and trucks

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