

Technical data

WE Soda Ecosoda®

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			63.5		60.0 – 70.0	
	g/cm ³			1.02		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)		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 ₂ O, wt %				58.3		58.0 min	
Na ₂ CO ₃ , wt %				99.7		99.2 min	
Na ₂ SO ₄ , wt %				0.03		0.20 max	
NaCl, wt %				0.08		0.20 max	
Fe ₂ O ₃ , 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 ₂ , 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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