



SODA ASH



## OFFERING A SECURE, RELIABLE SUPPLY

For nearly seven decades, our alkali business has been a dependable source of natural soda ash providing the widest range of product grades and the highest quality product choices to customers around the globe.

As the world's #1 producer of natural soda ash, we have built a solid track record of meeting the needs of customers in a wide range of industries. Our natural soda ash is essential in a vast array of important everyday uses, including glass manufacturing, chemical processes, soaps & detergents, air pollution control, and water treatment.

So when you look through your windshield or check your smart phone, our soda ash is there. When you drink your favorite beverage from a glass bottle, or wash your car, our soda ash is there. Tronox Alkali produces ingredients that make life easier, safer, and more enjoyable.

Our experienced team of professionals is committed to continually developing new techniques, new products and new ways to better serve our customers. This steady focus on innovation, combined with our superior supply chain expertise, allows us to bring the widest range of soda ash product grades to our customers in the most cost-effective manner possible. Our innovations include customized supply chain solutions, online vendor-managed inventory, and railcar tracking system.

With the longstanding success of our Green River operations, Tronox Alkali has a proud history of sustainable, safe and ethical extraction of trona ore. We back that legacy with breakthrough process technologies and superior customer care.

		The Widest Range of Product Grades						
		Light Soda Ash			Dense Soda Ash			
		Grade 50	AbsorptaPlus™	Grade 100™	Grade 160	Grade 260	OptiPro™	
Physical Properties	Bulk Density	lb/ft <sup>3</sup>	50	45	48	59	65	43-52
		g/cm <sup>3</sup>	0.8	0.73	0.77	0.95	1.06	0.69-0.83
	Screen Analysis, cumulative weight %	On US 30 (600 μm)		4	1	0.5	1	1
		On US 40 (425 μm)		20	8	9	15	5 - 35
		On US 50 (420 μm)	1					
		On US 100 (150 μm)	23	85	88	89	85	65-90
		Thru US 200 (75 μm)	70	2	2	2	2	0-10
Thru US 325 (44 μm)	88							
Absorptivity		Low	Highest	High	Medium	Low	Low	
Chemical Properties	Na <sub>2</sub> O, wt %	58.2	58.4	58.4	58.4	58.4	58.2	
	Na <sub>2</sub> CO <sub>3</sub> , wt %	99.6	99.8	99.8	99.8	99.8	99.5	
	Na <sub>2</sub> SO <sub>4</sub> , wt %	0.08	0.06	0.04	0.06	0.05	0.04	
	NaCl, wt %	0.06	0.05	0.05	0.05	0.06	0.03	
	Fe <sub>2</sub> O <sub>3</sub> , ppm	12	7	7	7	4	7	
	Arsenic, ppm	0.01	0.01	0.01	0.01	0.01	0.01	
	Heavy Metals (as Pb), ppm	<10	<10	<10	<10	<10	<10	
	Water Insolubles, wt %	0.05 max	0.05 max	0.05 max	0.05 max	0.05 max	0.05 max	

### Packaging and Delivery Options

Soda ash is available in bulk shipped in specially designed soda ash hopper rail cars, hopper truck or pneumatic truck. Soda ash is also packaged in 50-pound bags and various sized supersaks. The packaged product is palletized and wrapped for shipment at our Green River facility and / or other warehouses throughout the U.S.

Tronox soda ash is also available for ocean export to strategic markets around the world.

Mixed truckloads with soda ash, sodium bicarbonate, S-Carb®, or Sesqui™ are also available.



Responsible Care™

### Certifications

ISO 9001, Responsible Care, AWWA, Kosher, REACH, NSF, Halal

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