

SODA ASH PRODUCT SELECTION GUIDE

Product Name	Absorptivity ¹	Typical Bulk Density ² g/cc (lb/ft ³)	Dustiness ³	Flowability ⁴	Application ⁵
AbsorptaPlus™	Highest	0.70-0.74 (43-46)	Low	High	Agglomeration, Dry Blending
Grade 100™	High	0.78 (48)	Low	High	Agglomeration, Dry Blending, Spray Drying w/post addition
Synthetic Light	High	0.49 (35)	High	Low	Agglomeration, Dry Blending
FMC Dense Ash	Low	1.06 (66)	Low	High	Dry Blending, Spray Drying

FMC Grade 100 is the world's most versatile soda ash, and AbsorptaPlus™ is most absorptive natural soda ash. To learn more about FMC's Soda Ash grades review the tech data sheets.

1. Absorptivity is defined as the maximum surfactant loading before the onset of processing or product quality difficulties. The Absorptivity is measured using the Brabender Visco-Corder® method based on the addition of nonionic surfactant to rotating/ mixing sample of soda ash. "Low" is defined as 6-9%, "Medium" as 10-15% and "High" as 16-26% maximum surfactant Absorptivity.
2. Bulk density is measured by dropping a sample from a container suspended above a receiving cup of known volume. The weight of the contents of the cup is measured and when divided by the volume of the receiving gives the bulk density.
3. Dustiness is defined as those particles that flow through a US 200 mesh screen.
4. Flowability is defined as the angle of repose. The angle of repose is the angle between the horizontal and the edge of the pile of soda ash as it falls.

FMC Alkali Chemicals

FMC Corporation
1735 Market Street
Philadelphia, PA 19103

215.299.6000 phone
www.fmcchemicals.com

FMC SODA ASH SPECIFICATIONS

*Typical values are displayed

		Light Soda Ash		Dense Soda Ash	
		AbsorptaPlus™	Grade 100™	Grade 160	Grade 260
Bulk Density	lb/ft ³	45	48	59	65
	g/cm ³	0.73	0.77	0.95	1.06
Screen Analysis, cumulative weight %	On US 30 (600 μm)	4	1	0.5	1
	On US 40 (425 μm)	20	8	9	25
	On US 100 (150 μm)	85	88	89	85
	Thru US 200 (75 μm)	2	2	2	2
Absorptivity		Highest	High	Medium	Low
Na ₂ O, wt%		58.4	58.4	58.4	58.4
Na ₂ CO ₃ , wt%		99.8	99.8	99.8	99.8
Na ₂ SO ₄ , wt%		0.06	0.04	0.06	0.05
NaCl, wt%		0.03	0.03	0.03	0.06
Fe ₂ O ₃ , ppm		7	7	7	4
Water Insolubles, wt%		0.01	0.01	0.01	0.01

