



Americas Regional Product Data

Unground Calcined Aluminas

Almatis Calcined Aluminas are produced to consistently achieve the chemical purity and crystal structure necessary to meet the market needs. These products are made in rotary kilns from Bayer alumina produced in Bayer process refineries. The unground calcined aluminas may be used in some processes in their shipped form but more frequently require grinding in the customer's process.

Normal and Intermediate Soda Products

Product	A 2			A 35			CT 800			A13 LS			
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	
Chemical Composition (%)													
Al ₂ O ₃ by difference			99.6			99.7			99.7			99.7	
Na ₂ O		0.35	0.25		0.18	0.13		0.15	0.11		0.25	0.11	
Fe ₂ O ₃		0.035	0.02		0.035	0.02		0.04	0.02		0.035	0.02	
SiO ₂		0.03	0.02		0.03	0.01		0.03	0.01		0.03	0.02	
CaO			0.03		0.06	0.03		0.06	0.03			0.03	
B ₂ O ₃		0.035	0.015		0.03	0.003		0.03	0.003		0.02	0.002	
Physical Properties													
Surface Area BET (m ² /g)		0.7	0.4	0.35	0.7	0.5	0.65	0.85	0.7	6.5	15.0	9	
LOI 300 to 1100°C (%)			0.2										
Green Density ⁽¹⁾ (g/cc)						2.27	2.22	2.34	2.28				
Partide Size													
Sedigraph d50 ⁽¹⁾ (µm)						3.1	1.7	2.4	2.0				
+100M ⁽²⁾ /0.150mm (%)			0-8			0-8			0-8			0-8	
+200M ⁽²⁾ /0.075mm (%)			40-80			40-80			40-80			40-80	
+325M ⁽²⁾ /0.045mm (%)			70-95			70-95			70-95			70-95	
Packaging													
See Std. Packaging (p2)		1, 2, 3, 4, 6			1, 2, 3, 4, 6			1, 3, 4, 6			1, 3, 4, 6		

(1) By Lab Grind

(2) Tyler Mesh



Unground Calcined Aluminas

Low Soda Products

Product	A 3500			A 10			CL 3000			A 14		
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical
Chemical Composition (%)												
Al ₂ O ₃ by difference			99.8			99.7			99.8			99.8
Na ₂ O		0.10	0.08		0.13	0.08		0.08	0.04		0.05	0.03
Fe ₂ O ₃		0.035	0.02		0.05	0.02		0.04	0.02		0.05	0.01
SiO ₂		0.03	0.01		0.12	0.04		0.04	0.02		0.05	0.02
CaO		0.06	0.02			0.03		0.06	0.03		0.06	0.03
B ₂ O ₃		0.03	0.002		0.22	0.10		0.05	0.02		0.06	0.03
Physical Properties												
Surface Area BET (m ² /g)	0.35	0.7	0.5			0.2	0.60	0.75	0.7	0.45	0.70	0.55
Green Density ⁽¹⁾ (g/cc)			2.27				2.24	2.32	2.27			2.31
Particle Size												
Sedigraph d50 ⁽¹⁾ (µm)	2.4	3.3	3.1	4.5	5.3	5.0	2.2	3.0	2.4	2.4	3.2	2.8
Packaging												
See Std. Packaging (below)	1, 2, 3, 4, 6			1, 4, 5, 6			4, 5, 6			1, 2, 3, 4, 6		

(1) By Lab grind

Standard Packaging

- | | |
|---------------------------------------|--|
| 1. 50 lb paper bags - 70 per pallet | 5. 2755 lb super sacks - 1 per pallet |
| 2. 25 kg paper bags - 40 per pallet | 6. Bulk rail car |
| 3. 2500 lb super sacks - 1 per pallet | 7. Other options available with upcharge |
| 4. 1 mt super sacks - 1 per pallet | |

All data is based upon Almatis standard test methods. All test methods are available upon request. The typical properties are based upon the actual averages from production data. The Min/Max data represents Almatis standard product specification data for these products.



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