ALMATIS
PREMIUM ALUMINA

Americas Regional Product Data

-325 Mesh Ground Calcined Aluminas

Almatis -325 Mesh ground calcined aluminas meet the demanding requirements for refractory shapes and castables, electrical insulators, and surface finishing applications. With additional grinding they meet the demanding requirements for technical and electronic ceramics. These Almatis products are dry milled in continuous feed ball mills using ceramic media. The grinding process is closely monitored to achieve the product characteristics required by their intended applications. These products are ground from Almatis' normal soda and low soda calcined aluminas.

Normal Soda Products

Products	A 2 -325[1]			A 2 -325 CR[1]			A 35 -325[1]			A 35 -325 CR[1]		
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical
Chemical Composition (%)												
Al_2O_3 by difference			99.6			99.6			99.7			99.7
Na_2O		0.35	0.25		0.35	0.25		0.18	0.11		0.18	0.11
Fe_2O_3		0.04	0.02		0.04	0.02		0.04	0.02		0.04	0.02
SiO_2		0.05	0.02		0.10	0.03		0.04	0.02		0.04	0.02
B_2O_3		0.035	0.01		0.035	0.01		0.03	0.02		0.03	0.02
Physical Properties												
Surface Area BET (m^2/g)		1.1	0.6		1.1	0.7		1.1	0.7		1.1	0.8
Wet -325 Mesh Sieve (%)	95.0		97.6	99.0		99.3	95.0		97.3	99.0		99.3
Cilas +20 µm (%)												
Cilas d50 (µm)				4.0	6.2	5.0						4.5
Packaging												
See Std. Packaging (p2)	1,2,3,4,6			1,3,4,6			1,3,4,6			1,3,4,6		

(1) Chemistry for this product is assured through process control and verification of incoming alumina chemistry. Although each finished lot is not tested, the product is certified to conform to the chemistry specifications listed.

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Low Soda Products

Products	A 10 -325(1)			A 14 -325			CT 800 SG(1)			A 13 -325		
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical
Chemical Composition (%)												
Al_2O_3 by difference			99.7			99.8			99.8			99.8
Na_2O		0.13	0.08		0.05	0.04		0.15	0.07		0.30	0.12
Fe_2O_3		0.07	0.02		0.04	0.01		0.04	0.01		0.03	0.02
SiO_2		0.14	0.04		0.08	0.03		0.04	0.01		0.03	0.01
B_2O_3		0.22	0.08		0.06	0.03			0.001			0.002
Physical Properties												
Surface Area BET (m^2/g)			0.5	0.6	1.1	0.8	0.80	1.50	1.13	7.5	17	11
Wet -325 Mesh Sieve (%)	95.0		98.5	95.0		98.7				90.0		96.0
Cilas +20 µm (%)								1.0				
Cilas d50 (µm)	6.8	10	8.3	3.2	5.0	4.8	2.5	4.0	3.0			
Packaging												
See Std. Packaging (p2)	1,2,3,4,6			1,2,3,4,6			1,2,3,4,6			1,3,4,5		

(1) Chemistry for this products is assured through process control and verification of incoming alumina chemistry. Although each finished lot is not tested, the product is certified to conform to the chemistry specifications listed.

Standard Packaging

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

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.

Contacts for sales, technical information and application assistance

Almatis GmbH
Lyoner Straße 9
60528 Frankfurt/Germany

Phone **49 69 957 341 0**
Fax **49 69 957 341 13**

info@almatis.com
www.almatis.com

Almatis, Inc.
501 West Park Road
Leetsdale, PA 15056, USA
Phone
800 643 8771 (within US)
1 412 630 2800 (outside US)
Fax
1 412 630 2900

Almatis do Brasil Ltda.
Avenida Jose de Souza Campos, 243
2° Andar – Cambuí
13025-320 – Campinas, SP – Brasil
Phone
55 19 3515-1400
Fax
55 19 3515-1410

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