



Americas Regional Product Data

Reactive Aluminas for Refractory Applications

Almatris premium reactive aluminas are optimal products for achieving the targeted matrix particle size distributions and low water demand required for high performance refractories. These products are dry milled in ceramic lined batch ball mills using ceramic media. To produce optimal refractory products, the Almatris grinding process eliminates the porous agglomerates formed during the calcination process.

Product	A 1000 SG			RG 4000			A 152 SG		
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical
Chemical Composition (%)									
Al₂O₃ by difference			99.8			99.8			99.8
Na₂O		0.10	0.07		0.10	0.08		0.10	0.06
Fe₂O₃		0.03	0.02		0.04	0.02		0.05	0.02
MgO		0.06	0.05				0.05	0.10	0.07
SiO₂		0.05	0.03		0.08	0.03		0.08	0.03
CaO		0.05	0.02			0.02		0.05	0.02
B₂O₃		0.01	<0.01					0.02	0.015
Physical Properties									
Surface Area BET (m²/g)	6.5	11.0	8.2	6.0	9.5	7.2	3.5	4.8	4.3
Wet -325 Mesh Sieve (%)	99.2		99.6				99.4		99.8
Cilas d90 (µm)		3.5	2.6		4.0	3.0		3.0	2.7
Cilas d50 (µm)	0.4	0.7	0.6	0.4	0.8	0.6	1.0	1.3	1.2

Chemistry for all products is assured through process control and verification of incoming alumina chemistry. Each product is certified to conform to the chemistry specifications listed, thus each product lot is not tested.



Reactive Aluminas for Refractory Applications

Product	A 20 SG			A 3000 FL			CL 370			T60/T64 -20 micron ⁽¹⁾		
	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max	Typical
Chemical Composition (%)												
Al ₂ O ₃ by difference			99.6			99.8			99.7			99.3
Na ₂ O		0.35	0.23		0.10	0.07		0.14	0.10		0.40	
Fe ₂ O ₃		0.05	0.02		0.03	0.02		0.04	0.03			
SiO ₂		0.08	0.02		0.05	0.02		0.07	0.03		0.15	
CaO			0.03			0.03			0.02			
B ₂ O ₃		0.035	<0.02		0.03	<0.01						
Fe magnetic											0.02	
Physical Properties												
Surface Area BET (m ² /g)	0.8	1.8	1.3	1.6	3.8	2.5	2.6	3.4	3.0			
Wet -325 Mesh Sieve (%)			99.7	99.3		99.8						
Cilas d90 (µm)		10.0	7.8				5.0	10.0	7.0			
Cilas d50 (µm)	2.2	4.1	3.3	1.9	3.2	2.7	1.8	3.0	2.5	1.4	3.1	2.0
Wet Sieve +0.02mm (%)											10.0	5.0
Green Density (g/cc)						2.52						

(1) The MSDS number for this product is 154.

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Standard Packaging

50 lb paper bags - 70 per pallet
 25 kg paper bags - 40 per pallet
 2500 lb super sacks - 1 per pallet
 1 mt super sacks - 1 per pallet
 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.



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MSDS 387
MSDS 154