



ALMATIS

PREMIUM ALUMINA



## Global Product Data

# Global Almatis Aluminas for Refractories Applications

Properties/method	Unit	CT 800 FG			T60/T64–20 micron*		
		typical	Min	Max	typical	Min	Max
Specific Surface Area/BET	[m <sup>2</sup> /g]	0.9	0.7	1.2			
Particle Size/+0.020mm	[%]				5.0	0	10.0
Particle Size/D50 Cilas	[µm]	3.5	2.5	5.0	2.0		3.1
Particle Size/wet sieve >45µm	[%]	0.1		3.0			
<b>Chemical Analysis</b>							
Al <sub>2</sub> O <sub>3</sub>	[%]	99.7			99.3		
Na <sub>2</sub> O	[%]	0.12		0.15			0.40
Fe <sub>2</sub> O <sub>3</sub>	[%]	0.02		0.04			
Fe Magnetic	[%]						0.02
SiO <sub>2</sub>	[%]	0.02		0.04			0.15
CaO	[%]	0.03					

\*T60/T64–20 micron MSDS154.

All data are based upon Almatis standard test methods.

The typical properties are based upon the actual averages from production data.

Think alumina, think Almatis.

GP-RCP/018/R04/0812/MSDS 154/387



# Global Almatris Aluminas for Refractories Applications

Properties/method	Unit	RG 4000			CL 370			E-SY 1000		
		typical	Min	Max	typical	Min	Max	typical	Min	Max
Specific Surface Area/BET	[m <sup>2</sup> /g]	7.2	6.0	9.5	3.0	2.6	3.4	2.0	1.6	2.3
Particle Size/D50 Cilas	[µm]	0.6	0.4	0.8	2.5	1.8	3.0	1.7	1.3	2.1
Particle Size/D90 Cilas	[µm]	3.0		4.0	7.0	5.0	10.0	8.0	5.0	12
Grain Size Distribution		mono-modal			bi-modal			bi-modal		
<b>Chemical Analysis</b>										
Al <sub>2</sub> O <sub>3</sub>	[%]	99.8			99.7			99.5		
Na <sub>2</sub> O	[%]	0.08		0.10	0.10		0.14	0.20		0.35
Fe <sub>2</sub> O <sub>3</sub>	[%]	0.02		0.04	0.03		0.04	0.03		0.06
SiO <sub>2</sub>	[%]	0.03		0.08	0.03		0.07	0.03		0.06
CaO	[%]	0.03			0.03			0.03		

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# Global Almatis Aluminas for Refractories Applications

Properties/method	Unit	CTC 20			CTC 40			CTC 50		
		typical	Min	Max	typical	Min	Max	typical	Min	Max
Specific Surface Area/BET	[m <sup>2</sup> /g]	2.0	1.5	3.0	4.8	4.0	5.5	4.1	3.7	5.5
Particle Size/D50 Cilas	[µm]	1.8	1.4	2.3	1.2	0.8	1.5	1.5	1.1	1.9
Particle Size/D90 Cilas	[µm]	4.5		6.0	5.5	4.7	6.8	7.5	6.0	9.0
Grain Size Distribution		mono-modal			bi-modal			multi-modal		
<b>Chemical Analysis</b>										
Al <sub>2</sub> O <sub>3</sub>	[%]	99.7			99.8			99.7		
Na <sub>2</sub> O	[%]	0.12		0.20	0.08		0.12	0.16		0.20
Fe <sub>2</sub> O <sub>3</sub>	[%]	0.03		0.05	0.03		0.06	0.03		0.05
SiO <sub>2</sub>	[%]	0.03		0.08	0.03		0.07	0.03		0.10
CaO	[%]	0.03			0.03			0.03		

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The typical properties are based upon the actual averages from production data.



# Global Almatis Aluminas for Refractories Applications



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