





\* T60: Product name in all countries except North America (T64)



Chemical Composition	Unit	All Sizes <sup>1</sup>	-45 micron LI	-45 micron STD	-20 micron			
$Al_2O_3$ by difference (typical)	[%]	99.5	99.5	99.1	99.3			
Na <sub>2</sub> O	[%]	≤ 0.40 ≤ 0.40		≤ 0.60	≤ 0.40			
SiO <sub>2</sub>	[%]	≤ 0.09	≤ 0.09	≤ 0.12	≤ 0.15			
Fe Magnetic	[%]	≤ 0.02	≤ 0.02	≤ 0.30	≤ 0.02			
Physical Properties	Unit		All S	lizes				
Bulk Specific Gravity	[g/cm3]	≥ 3.50						
Apparent Porosity	[%]	≤ 5						
Water Absorption	[%]	≤ 1.5						

All data are based upon Almatis standard test methods. All test methods are available upon request. 1) All sizes excluding - 45 micron LI, - 45 micron STD and - 20 micron

### Open Sizes – Particle Size Distribution

DIN <sup>2</sup> [mm]	Tyler <sup>3</sup> [mesh]	Unit	Тур.	Min.	Max.	DIN <sup>2</sup> [mm]	Tyler <sup>3</sup> [mesh]	Unit	Тур.	Min.	Max.	
0 - 3 mm (- 6 mesh)						0 - 0.2 mm (- 65 mesh)						
+ 3.35 mm	6	[%]	1	0	8	+ 0.212 mm	65	[%]	3	0	5	
+ 2.0 mm	9	[%]	32			+ 0.125 mm	115	[%]	12			
+ 1.0 mm	16	[%]	29			+ 0.063 mm	250	[%]	38			
- 0.125 mm	115	[%]	7	1	21	- 0.045 mm	325	[%]	41	25	55	
0 - 1 mm (- 14 mesh)						- 45 micron Ll	(- 325 mesh	LI)				
+ 1.4 mm	12	[%]	1	0	2	+ 0.063 mm	250	[%]	0	0	1	
+ 1.0 mm	16	[%]	11			- 0.045 mm	325	[%]	99	95	100	
+ 0.5 mm	32	[%]	36			- 45 micron STD (- 325 mesh STD)						
- 0.106 mm	150	[%]	14	5	26	+ 0.063 mm	250	[%]	0	0	2	
0 - 0.5 mm (	- 28 mesh)					- 0.045 mm	325	[%]	98	95	100	
+ 0.71 mm	24	[%]	1	0	3	- 20 micron						
+ 0.5 mm	32	[%]	14			+ 0.020 mm <sup>4</sup>	635	[%]	5	0	10	
+ 0.25 mm	60	[%]	37			Particle Size D50 <sup>5</sup>		[µm]	3.7		5.0	
- 0.045 mm	325	[%]	9	2	20	2) Sieve analysis as per DIN/ISO 3310/1						
0 - 0.3 mm (	- 48 mesh)					3) Sieve analysis		Screen Sc	ale			
+ 0.3 mm	48	[%]	1	0	5	<ul> <li>4) Wet -20 micron sieve</li> <li>5) Laser granulometry Bettersizer S3 Almatis global standard</li> <li>The typical product properties are based upon the actual average</li> </ul>						
+ 0.25 mm	60	[%]	3									
+ 0.125 mm	115	[%]	29			from product data. The Min/Max data show our standard produ specification data for these products.						
- 0.045 mm	325	[%]	29	15	45	All data are based upon Almatis standard test methods. All t methods are available upon request.					s. All test	

Other sizes are available upon request.



### Closed Sizes – Particle Size Distribution

DIN <sup>1</sup> [mm]	Tyler <sup>2</sup> [mesh]	Unit	Тур.	Min.	Max.	DIN <sup>1</sup> [mm]	Tyler <sup>2</sup> [mesh]	Unit	Тур.	Min.	Max.
3 - 6 mm (3 - 6 mesh)					0.5 - 1 mm (14 - 28 mesh)						
+ 6.3 mm	1⁄4 inch <sup>3</sup>	[%]	1	0	4	+ 1.4 mm	12	[%]	1	0	2
+ 5.0 mm	-	[%]	22			+ 1.0 mm	16	[%]	19		
+ 4.0 mm	5	[%]	40			+ 0.71 mm	24	[%]	50		
- 2.0 mm	9	[%]	1	0	3	- 0.5 mm	32	[%]	4	0	10
2 - 5 mm (1 ⁄4 inch - 8 mesh)				0.2 - 0.6 mm (28 - 48 mesh)							
+ 6.3 mm	1⁄4 inch <sup>3</sup>	[%]	1	0	3	+ 0.71 mm	24	[%]	1	0	2
+ 5.0 mm	-	[%]	14			+ 0.5 mm	32	[%]	11		
+ 4.0 mm	5	[%]	31			+ 0.25 mm	60	[%]	81		
- 2.0 mm	9	[%]	2	0	6	- 0.212 mm	65	[%]	3	0	7
1 - 3 mm (6 -	14 mesh)			-	-						
+ 4.0 mm	5	[%]	1	0	2	-					
+ 3.35 mm	6	[%]	4			1) Sieve analysis as per DIN/ISO 3310/1					

2) Sieve analysis as per Tyler Screen Scale

3) ASTM E-11 (inch)

The typical product properties are based upon the actual averages from product data. The Min/Max data show our standard product specification data for these products. All data are based upon Almatis standard test methods. All test methods are available upon request. Other sizes are available upon request.

+ 2.0 mm

- 1.0 mm

+ 3.35 mm

+ 2.0 mm

+ 1.4 mm

- 1.0 mm

1 - 2 mm or 8 - 14 mesh

9

16

6

9

12

16

[%]

[%]

[%]

[%]

[%]

[%]

52

2

1

11

56

3

0

0

0

10

1

10





### **Global Packaging**

	Bags 25 kg	Bags 50 lbs	Big bags 1.0 mt	Big bags 2.0 mt	Big bags 4000 lbs	Bulk shipments
Americas		•			•	•
Asia	•		•			
Europe	•			•		•

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#### **Product Description**

Almatis Tabular Alumina T60/T64 is a pure sintered  $\alpha$ -alumina material that has been fully densified by rapid-sintering without the use of sintering aids at temperatures in excess of 1800°C. Tabular Alumina has characteristic large, well developed hexagonal tablet shaped  $\alpha$ -alumina crystals of up to 200 µm length. The excellent thermal volume stability and thermal shock characteristics can be attributed to its specific microstructure: low open porosity and large crystals with closed spherical pores, which are entrapped upon re-crystallization during rapid sintering. Tabular alumina has extremely high refractoriness, high mechanical strength and abrasion resistance, very good chemical purity, excellent dielectric properties and good resistance against acid and alkali corrosion.

Tabular Alumina is the aggregate of choice in unshaped and shaped high-performance refractories. It is used in a variety of industries such as steel, foundry, cement, petrochemical, ceramic and waste incineration. Other common applications include its use in electrical insulators, kiln furniture and as a catalyst support. Ground Tabular is an excellent product to be used as a filler in epoxy or resin systems where high dielectric strength, thermal conductivity or abrasion resistance is desired.

#### Contact for sales, technical information and application assistance

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SDS 154

Think alumina, think Almatis.

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