



ALMATIS

PREMIUM ALUMINA



Global Product Data

Tabular Alumina T60/T64*



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

Think alumina, think Almatris.

GP-RCP/001/R07/0812/MSDS 154



Tabular Alumina T60/T64*

Chemical Composition [%]	All Sizes ¹⁾	- 45 micron LI	- 45 micron STD	- 20 micron
Al ₂ O ₃ by difference (typical)	99.5	99.5	99.1	99.3
Na ₂ O	≤ 0.40	≤ 0.40	≤ 0.60	≤ 0.40
SiO ₂	≤ 0.09	≤ 0.09	≤ 0.12	≤ 0.15
Fe Magnetic	≤ 0.02	≤ 0.02	≤ 0.30	≤ 0.02

Physical Properties	
Bulk Specific Gravity [g/cm ³]	≥ 3.50
Apparent Porosity [%]	≤ 5
Water Absorption [%]	≤ 1.5

All data are based upon Almatris standard test methods.

1) All sizes excluding - 45 micron LI, - 45 micron STD and - 20 micron.

Open Sizes – Particle Size Distribution ²⁾

DIN ^{2a)} [mm]	Tyler ^{2b)} [mesh]	Typical [%]	Min/Max [%]
0 - 3 mm (- 6 mesh)			
+ 3.35 mm	6	1	0 - 8
+ 2.0 mm	9	32	
+ 1.0 mm	16	29	
- 0.125 mm	115	7	1 - 21
0 - 1 mm (- 14 mesh)			
+ 1.4 mm	12	1	0 - 2
+ 1.0 mm	16	11	
+ 0.5 mm	32	36	
- 0.106 mm	150	14	5 - 26
0 - 0.5 mm (- 28 mesh)			
+ 0.71 mm	24	1	0 - 3
+ 0.5 mm	32	14	
+ 0.25 mm	60	37	
- 0.045 mm	325	9	2 - 20
0 - 0.3 mm (- 48 mesh)			
+ 0.3 mm	48	1	0 - 5
+ 0.25 mm	60	3	
+ 0.125 mm	115	29	
- 0.045 mm	325	29	15 - 45

DIN ^{2a)} [mm]	Tyler ^{2b)} [mesh]	Typical [%]	Min/Max [%]
0 - 0.2 mm (- 65 mesh)			
+ 0.212 mm	65	3	0 - 5
+ 0.125 mm	115	12	
+ 0.063 mm	250	38	
- 0.045 mm	325	41	25 - 55
- 45 micron LI (- 325 mesh LI)			
+ 0.063 mm	250	0	0 - 1
- 0.045 mm	325	99	95 - 100
- 45 micron STD (- 325 mesh STD)			
+ 0.063 mm	250	0	0 - 2
- 0.045 mm	325	98	95 - 100
- 20 micron			
+ 0.020 mm	635	5	0 - 10
Cilas d50 ³⁾		2.0 [µm]	max. 3.1 [µm]

2) Sieve analysis as per a) DIN/ISO 3310/1, b) Tyler Screen Scale

3) Cilas 1064

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Closed Sizes – Particle Size Distribution ⁴⁾

DIN ^{4a)} [mm]	Tyler ^{4b)} [mesh]	Typical [%]	Min/Max [%]
3 - 6 mm (3 - 6 mesh)			
+ 6.3 mm	1/4 in. ⁵⁾	1	0 - 4
+ 5.0 mm	-	22	
+ 4.0 mm	5	40	
- 2.0 mm	9	1	0 - 3
2 - 5 mm (1/4 inch - 8 mesh)			
+ 6.3 mm	1/4 in. ⁵⁾	1	0 - 3
+ 5.0 mm	-	14	
+ 4.0 mm	5	31	
- 2.0 mm	9	2	0 - 6
1 - 3 mm (6 - 14 mesh)			
+ 4.0 mm	5	1	0 - 2
+ 3.35 mm	6	4	
+ 2.0 mm	9	52	
- 1.0 mm	16	2	0 - 10
1 - 2 mm or 8 - 14 mesh			
+ 3.35 mm	6	1	0 - 1
+ 2.0 mm	9	11	
+ 1.4 mm	12	56	
- 1.0 mm	16	3	0 - 10

DIN ^{4a)} [mm]	Tyler ^{4b)} [mesh]	Typical [%]	Min/Max [%]
0.5 - 1 mm (14 - 28 mesh)			
+ 1.4 mm	12	1	0 - 2
+ 1.0 mm	16	19	
+ 0.71 mm	24	50	
- 0.5 mm	32	4	0 - 10
0.2 - 0.6 mm (28 - 48 mesh)			
+ 0.71 mm	24	1	0 - 2
+ 0.5 mm	32	11	
+ 0.25 mm	60	81	
- 0.212 mm	65	3	0 - 7

4) Sieve analysis as per a) DIN/ISO 3310/1, b) Tyler Screen Scale
5) 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. Other sizes are available upon request.

Global packaging

	bags 25 kg	bags 50 lbs	big bags 1.0 mt	big bags 2.0 mt	big bags 4000 lbs ⁶⁾	bulk shipments
Americas		•			•	•
Asia	•		•			
Europe	•			•		•

6) or super sacks

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Tabular Alumina T60/T64*

Almatris Tabular Alumina T60/T64 is a pure sintered α -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 α -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.

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