

T-162 Tabular Alumina Balls



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Product Description

T-162 Tabular Alumina Balls are high-purity sintered alpha-alumina spheres available in various sizes. This product range has been fired at extremely high temperatures >1900 °C to reduce porosity to a very low level. This high-temperature process leads to the growth of large plate-like or tablet-like alpha-alumina crystals giving Tabular Alumina its name. T-162 Tabular Alumina Balls are carefully selected before packaging for size control, roundness and smooth surface. Some chipped, broken, oblong and rough surface balls may be present in all sizes.

Product Applications

Since decades T-162 Tabular Alumina balls have been used for heat exchange media (so-called pebble heaters) and metal filtration.

The properties of smooth surface, chemical inertness, high chemical purity, abrasion resistance and superior thermal and mechanical shock resistance are crucial to the excellent performance of T-162 in these applications.

For the same reasons T-162 Tabular Alumina balls are also used as catalyst reactor and desiccant bed supports. Generally, the support material is in the form of balls with smooth surface, since that form gives the lowest pressure drop.

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Chemical Composition	Unit	Typical
Al ₂ O ₃ by difference	[%]	99.7
SiO ₂	[%]	0.02
Fe ₂ O ₃	[%]	0.02
Na ₂ O	[%]	0.20
Physical Properties		
Specific Gravity		3.65
Apparent Porosity	[%]	1.5
Water Absorption	[%]	0.4
Packed Bulk Density	[kg/m ³]	2160 (for 3/16") to 2000 (for 1")
Cold Crushing Strength	[N]	2900 (for 3/16") to 14700 (for 1")

Sizes	Nom. Diameter	10% max.	Size Distribution 80% min.	10% max.
1 inch	25 mm	+ 26.5 mm	26.5 - 23.5 mm	- 23.5 mm
3/4 inch	19 mm	+ 20.0 mm	20.0 - 18.0 mm	- 18.0 mm
1/2 inch	13 mm	+ 14.0 mm	14.0 - 12.0 mm	- 12.0 mm
3/8 inch	11 mm	+ 12.0 mm	12.0 - 10.0 mm	- 10.0 mm
5/16 inch	8 mm	+ 9.0 mm	9.0 - 7.0 mm	- 7.0 mm
1/4 inch	6.4 mm	+ 7.0 mm	7.0 - 5.5 mm	- 5.5 mm
3/16 inch	4.8 mm	+ 5.5 mm	5.5 — 4.0 mm	- 4.0 mm

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

Standard Packaging

- 1000 kg big bags

Contact for sales, technical information and application assistance

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