



T-162 Tabular Alumina Balls





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Product Characteristics

T-162 Tabular Alumina Balls are high-purity sintered alpha-alumina spheres (in various sizes). This product has been fired at extremely high temperatures (>1900°C) to reduce porosity to a very low level. This high-temperature process leads 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

T-162 Tabular Alumina Balls have been used since the 1950s for heat exchange media (so-called pebble heaters) and metal filtration. The properties of smooth surface, chemical inertness, high chemical purity and superior thermal and mechanical shock resistance are crucial to the excellent performance of T-162 in these applications.

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Chemical Composition [wt %]		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	Size Distribution		
		10%max.	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

All data are based upon Almatis standard test methods.

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

Standard Packaging

- 25 kg paper bags
- 1000 kg bulk bags



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