

ALUMINUM OXIDE SPHERES (AL₂O₃)

Panadyne offers custom Aluminum Oxide spheres. The Aluminum Oxide spheres have excellent mechanical properties and are often used as grinding media in a variety of mills. The spheres have high compressive strength and scuff-resistance. Spheres are offered in a 92% & 99% purity to serve both grinding and packing applications. Aluminum Oxide Spheres are available in typical sizing ranging from 2mm to 25mm. Please contact us for more information.

TYPICAL ANALYSIS 90- 92%

Bulk Density	3600 kg/m ³
Bulk Density	3.60 g/cc
Apparent Porosity	0%
Flexural Strength	334.4 MPa
Elastic Modulus	190.0 GPa
Compressive Strength	1461.7 MPa
Vicker's Hardness	1136 VNM
Fracture Toughness	3.3 MPa/M ²
Packing Density	2232 kg/m ³

TYPICAL APPLICATIONS

Grinding	Milling
Filtration	Packing



TYPICAL PROPERTIES

High Hardness

High Compression Strength

Abrasion / Wear-Resistance

Chemical Inertness

Resistance to Thermal Shock

High Melting Point