

ATLAS BALL & BEARING CO. LIMITED

ALUMINA Al_2O_3 CERAMIC BALL DATA SHEET

Attributes

Alumina ceramic balls resist corrosion and abrasion extremely well. Not recommended for environments of hydrofluoric or hot sulphuric acid. They also have low thermal conductivity and a high resistance to heat.

Chemical Analysis

99.3-99.5% Al_2O_3

Typical Uses/Applications

Check valves
Flow meters

Grades available

G25, G100

Mechanical/Physical Properties

Hardness:	1365 Hv
Specific Gravity (Density)	3.7-3.99 g/cm^3 (0.139 lb/in^3)
Magnetic properties:	Non magnetic
Modulus of Elasticity	407 GPa
Bending strength	300-400 Mpa
Fracture toughness	4.5 $\text{Mpa}\cdot\text{m}^{1/2}$
Max working Temp	1200° C

<http://www.atlasball.co.uk>

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet

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