

# ATLAS BALL & BEARING CO. LIMITED

## ALUMINA $\text{Al}_2\text{O}_3$ 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%  $\text{Al}_2\text{O}_3$

### Typical Uses/Applications

Check valves  
Flow meters

### Grades available

G25, G100

### Mechanical/Physical Properties

Hardness:	1365 Hv
Specific Gravity (Density)	3.7-3.99 $\text{g/cm}^3$ (0.139 $\text{lb/in}^3$ )
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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