

ATLAS BALL & BEARING CO. LIMITED

ZIRCONIA ZrO₂ CERAMIC BALL DATA SHEET

Attributes

Zirconia ceramic balls resist corrosion and abrasion extremely well. Not recommended for hydrochloric acid and strong alkaline solutions. They also have low thermal conductivity and a high resistance to heat.

Chemical Analysis

94.8% ZrO₂,
5.2% Y₂O₃

Typical Uses/Applications

Check valves
Flow meters

Grades Available

G10, G25

Mechanical/Physical Properties

Hardness:	HRA 87, 1160 Hv
Specific Gravity (density)	6.0 g/cm ³ (0.217 lb/in ³)
Magnetic properties:	Non magnetic
Modulus of Elasticity	200-250 GPa
Bending strength	1200 Mpa
Fracture toughness	10 Mpa.m ^{1/2}
Max working Temp	800 ⁰ C

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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