

ATLAS BALL & BEARING CO. LIMITED

SILICON NITRIDE Si₃N₄ BALL DATA SHEET

Attributes

Light weight, high strength ceramic material.
Excellent corrosion resistancy as it is inert to most substances.

Chemical Analysis

90% Si₃N₄

Typical Uses/Applications

Bearings
Ball screws
Flow meters

Grades available

G5, G10, G25

Mechanical/Physical Properties

Hardness:	1400-1700 Hv
Specific Gravity (density)	3.20 g/cm ³ (0.116 lb/in ³)
Magnetic properties:	Non magnetic
Modulus of Elasticity	300-320 GPa
Bending strength	800 Mpa
Fracture toughness	6.0-7.0 Mpa.m ^{1/2}
Max working Temp	800° 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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