

ATLAS BALL & BEARING CO LTD

TUNGSTEN CARBIDE BALL DATA SHEET

Attributes Offers extreme hardness and wear resistance. This material is sintered and is formed using a cobalt binder.

Chemical Analysis % by weight

Sandvik material H6N
WC 94.0, Co 6.0

Typical uses/applications

Gauges, wear parts, flow meters, probes, indenters,

Grades available

G10, G25

Mechanical/physical properties

Hardness	1600 HV30	92.1 HRA at 20° C
Transverse rupture strength	2600 N/mm ²	at 20° C
Compressive strength	6200 N/mm ²	at 20° C
Thermal conductivity	100 W/m° C	at 20° C
Electrical resistivity	20 μΩcm	
Young's modulus	630 KN/mm ²	
Poisson's ratio	0.21	
Specific gravity	15.00	g/cm ³
Magnetic properties	Slightly magnetic	

Source – Sandvik Hard Materials Ltd

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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