

ATLAS BALL & BEARING CO. LIMITED

CASE HARDENED CARBON STEEL BALL DATA SHEET

Attributes Lowest cost steel balls used where high precision and loads are not so important.

Specification with equivalents AISI 1010/1015
JIS SWRM 12/15
DIN 1.0301
BS 045M10
UNS G10150

Chemical Analysis %

C	0.08-0.18	P	0.04 max
Mn	0.30-0.60	Si	0.05 max

Typical uses/applications Castors, bicycles, bearings

Grades available G100, G200, G500, G1000

Mechanical/physical properties

Hardness	HRC 60 min
Tensile strength	75 kg/mm ²
Max operating temp.	150° C
Specific gravity (density)	7.86 g/cm ³ (0.283 lb/in ³)
Crushing loads	Available upon application

Unhardened balls

These balls are also available in the soft condition suitable for spot welding. Normally in G2000 they are widely used in shop fittings and for decorative use.

www.atlasball.co.uk

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

Issue 5 dated 29.11.10