

ATLAS BALL & BEARING CO. LIMITED

AISI 904L STAINLESS STEEL BALL DATA SHEET

Attributes

Non stabilised low carbon high alloy austenitic stainless steel balls have good resistance to strong reducing acids particularly sulphuric. Also highly resistant to chloride attack – both pitting / crevice corrosion and stress corrosion cracking.

Specification with equivalents

AISI 904L
BS 904S13
DIN 1.4539
Uranus B6
Euronorm X1NiCrMoCu25.20.5
AFNOR Z2NCDU25-20
UNS N08904

Chemical Analysis %

C	0.02 max	Cr	23.00–28.00
Ni	4.00 – 5.00	Mo	2.0 max
Si	1.0 max	P	0.045 max
S	0.035 max	Cu	1.0 –2.0
Fe	Bal		

Typical uses/applications

Pulp and paper processing
Gas scrubbing plants
Seawater cooling equipment
Oil refinery components

Mechanical/physical properties

Hardness (typical)	HRB 70-90
Tensile strength	490 MPa
Max service temperature	400 ⁰ C
Specific gravity (density)	8.00 g/cm ³ (0.288 lb/in ³)
Mean Co-eff Thermal Expansion	0-100 ⁰ C 15 μ/m/°C
Magnetic properties	Non magnetic

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

Issue 2 dated 29.11.10