

# 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 <sup>0</sup> C
Specific gravity (density)	8.00 g/cm <sup>3</sup> (0.288 lb/in <sup>3</sup> )
Mean Co-eff Thermal Expansion	0-100 <sup>0</sup> 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.

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