

# ATLAS BALL & BEARING CO. LIMITED

## AISI 304 STAINLESS STEEL BALL DATA SHEET

### Attributes

Austenitic, unhardened stainless steel balls have good mechanical properties and corrosion resistance.

### Specification with equivalents

AISI 304  
BS 970 304S15  
Werkstoff 1.4301  
AFNOR Z6CN18-09  
UNI X5CrNi810  
UNS S30400

### Chemical Analysis %

C	0.06 max	S	0.03 max
Si	0.20-1.00	Cr	17.50-19.00
Mn	0.50-2.00	Ni	8.00-11.00
P	0.045 max	Fe	Bal

### Typical uses/applications

Components used in foodstuff manufacture.  
Valves

### Mechanical/physical properties

Hardness	260 - 390 Hv, 25 - 39 HRC
Hardness (Annealed)	137 - 185 Hv, 75 - 90 HRB
Tensile strength	600-1200 Mpa
Specific gravity (density)	7.79 g/cm <sup>3</sup> (0.284 lb/in <sup>3</sup> )
Modulus of elasticity	187.5 kN/mm <sup>2</sup>
Modulus of rigidity	70.3 kN/mm <sup>2</sup>

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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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