

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 ³ (0.284 lb/in ³)
Modulus of elasticity	187.5 kN/mm ²
Modulus of rigidity	70.3 kN/mm ²

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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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