

ATLAS BALL & BEARING CO. LIMITED

AISI 420 STAINLESS STEEL BALL DATA SHEET

Attributes Most widely used martensitic stainless steel gives fair corrosion resistance against fresh water, steam, petrol and alcohol.

Specification with equivalents BS 970 420S37, 420S45
AISI420
DIN 1.4021, 1.4028, 1.4034
AFNOR Z30C13, Z40C14
JIS SUS 420J1, 420J2

Chemical Analysis (%)

C	0.16-0.50	P	0.04 max
Si	1.00 max	S	0.03 max
Mn	1.00 max	Ni	1.00 max
Cr	12.00-14.00	Fe	Bal

Typical Uses/Applications Bearings
Valves
Connectors

Grades Available Grade 100, 200, 500, 1000

Mechanical/Physical Properties Hardness: 52-60 HRC, 544-700 HV
Specific Gravity: 7.75 g/cm³
Density: 0.280 lb/in³
Tensile strength 1900 Mpa

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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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