

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 4200J1, 420J2
UNS S42000

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

www.atlasball.co.uk

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

Issue 4 dated 29.11.10