

Stainless Steel AISI 420, 420C (Martensitic)

General Information

Balls of this material have a lower chrome content than 440C, and are used in applications where the more rigid corrosion resistance requirements can be relaxed. They have fair resistance to fresh water, steam, oil, gasoline, blood, perspiration, alcohol and food environment. However will not pass 40 hours salt spray test.

International Equivalents

AISI 420, SUS 420, X47Cr13, EN56D, W 1.3541

Composition

	420	420C
C	0.15% Min	0.40 - 0.50%
Cr	12 - 14%	12.5 -14.5%
Si	1.0% Max	1.0% Max
Mn	1.0% Max	1.0% Max
P	0.04% Max	0.04% Max
S	0.03% Max	0.03% Max
Ni	-	1.0% Max

Hardness

HRC	48-53	53-58
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Mechanical Properties

Tensile Strength	275,000 psi
Specific Weight	0.280 lbs/cu.in

Size Range - 0.6mm (0.024") to 76.2mm (3")

Standard Grades Available

10, 16, 24, 48, 100, 200