

Stainless Steel AISI 440C (Martensitic)

General Information

These balls give maximum hardness with good corrosion resistance to fresh water, steam, crude oil, gasoline, alcohol, food environment, blood and perspiration. In addition this material is ferro-magnetic and makes a fair permanent magnet. Balls are deep freeze stabilised after heat treatment.

International Equivalents

AISI 440C, DINX105 CR Mo17, SUS 440C, W 1.4125

Composition

C	0.95 - 1.20%
Cr	16 - 18%
Si	1.00% Max
Mn	1.0% Max
P	0.040% Max
S	0.030% Max
Mo	0.40 - 0.80% Max

Hardness

HRc	58 - 63
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Mechanical Properties

Tensile Strength	285,000 psi
Yield Strength	275,000 psi
Density	0.277 lbs/cu.in

Size Range - 0.635mm (0.025") to 101.60mm (4")

Standard Grades Available

10, 25, 50, 1000