UNITED PERFORMANCE METALS
QUALITY SOLUTIONS. TRUSTED PARTNERS.
AN ONI COMPANY

Stainless 440C

440C is a hardenable chromium steel. After heat treatment, it is capable of attaining the highest strength, hardness and wear resistance of all stainless alloys.

Specifications

ASTM: A480
ASTM: A276
UNS: S44004

Chemical Composition, %

Element	Maximum Unless Range is Specified
Carbon	1.20
Chromium	18
Manganese	1
Molybdenum	0.75
Phosphorus	0.040
Silicon	1
Sulphur	0.30

Features

- Hardenable chromium steel
- High strength
- High wear resistance

Applications

- Cutting Instruments
- Knife Blades
- Surgical Instruments
- Chisels
- Ball Bearings and Valves

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Physical Properties

Properties	
Density kg/m³	7650
Thermal Conductivity 212°F, 100°C	24.2
Thermal Conductivity at 932°F, 500°C	-
Electrical Resistivity	600
Elastic modulus (Gpa)	200

Mechanical Properties

Property	
Annealed	**Type 440C**
Yield Strength, 0.2% Proof (MPa)	448
Tensile Strength (Mpa)	75
Elongation (% in 50mm)	14
Hardness (HB)	269 max