

Type 440C (UNS S44004) is a martensitic stainless steel with high carbon and chromium content. Molybdenum improves the steel's deep hardening and toughness. It also enhances wear resistance. After heat treatment, it is capable of attaining the highest strength, hardness and wear resistance of all stainless alloys.

Nominal Composition %

C	Carbon – 1.20%
Cr	Chromium – 18%
Mn	Manganese – 1%
Mo	Molybdenum – 0.75%
P	Phosphorous – 0.04%
Si	Silicon – 1%
S	Sulfur – 0.030%

Percent by weight, maximum unless a range is listed.

Standard Inventory Specifications

- ASTM A 276
- ASTM A 480
- ASTM F 899
- AMS 5630 Chem Only
- AISI (440C)

Forms Stocked

- 440C Plate

Thickness Stocked

- 0.1875" - 2.500" thick

Applications

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



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Industries

- Aerospace
- Semiconductors
- Space
- Defense
- Alternative Energy

Physical Properties

Properties	Value
Density	7650 kg/m ³
Thermal Conductivity 212°F, 100°C	24.2 (W/m.K)
Thermal Conductivity at 932°F, 500°C	-
Electrical Resistivity	600 (nW.m)
Elastic Modulus	200 Gpa

Mechanical Properties

440C (Annealed) Properties	Value
Yield Strength, 0.2% Proof (MPa)	448
Tensile Strength (Mpa)	75
Elongation (% in 50mm)	-
Hardness (HB)	14
Elastic Modulus	269 max