







Bearing Steels

AMS5618/AMS5880/AMS5630 (440C)

Datasheet Updated 05 August 2021

SPECIFICATIONS

440C Commercial AMS5618/5880/5630 Aerospace

A high carbon chromium steel alloy.

SUPPLIED FORMS

- Bar
- Wire
- Forgings

CHEMICAL COMPOSITION

AMS5618 440C

Element	% Present
Carbon (C)	0.95 - 1.20
Chromium (Cr)	16.00 - 18.00
Manganese (Mn)	0.00 - 1.00
Silicon (Si)	0.00 - 1.00
Molybdenum (Mo)	0.00 - 0.75
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Iron (Fe)	Balance

APPLICATIONS

- Cutting instruments
- Ball bearings and ball screws
- Knife blades, chisels, and swords
- Surgical instruments

CHARACTERISTICS

- Capable of hardnesses in excess of 58 HRC after heat treatment
- Suitable for anti-friction bearing components where resistance to both corrosion and wear is essential

DISCLAIMER

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