

AMS5618 - AMS5880 - AMS5630 - 440C

### Additional Information

440C has similarities to the following standard designations and specification

AMS 5880 / 5630

### Chemical Properties

Element	Chemical Composition %
Carbon (C)	0.95 - 1.20 max
Phosphorous (P)	0.040 max
Silicon (Si)	1.00 max
Molybdenum (Mo)	0.75 max
Manganese (Mn)	1.00 max
Sulphur (S)	0.030 max
Chromium (Cr)	16.00 - 18.00 max
Iron (Fe)	Balance

### Physical Properties

Property	Value
Specific Gravity	7.62
Density	0.2750 lb/in <sup>3</sup>
Mean Specific Heat 32 - 212 °F	0.1100 Btu/lb/°F
Mean CTE 32 - 212 °F	5.60 x 10 <sup>-6</sup> in/in/°F
Thermal Conductivity 212 °F	168.0 Btu-in/hr/ft <sup>2</sup> /°F
Modulus of Elasticity (E)	29.0 x 10 <sup>3</sup> ksi
Electrical Resistivity 70 °F	361.0 Ω-cir-mil/ft

### Typical Room Temperature Mechanical Properties

#### Heat Treatment

Annealing

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