RIGHTON BLACKBURNS
METALS AND PLASTICS

EXPERTISE COLLABORATION INTEGRITY

Copper Alloys

AMS 4625 (C51000)

Datasheet Updated
05 August 2021

SPECIFICATIONS

Aerospace	AMS 4625
US	C51000

A lower strength, wrought hardened copper alloy used in electrical, fastener and industrial applications.

CHEMICAL COMPOSITION

Element	% Present
Phosphorous (P)	0.00 - 0.20
Tin (Sn)	0.00 - 5.00
Copper (Cu)	Balance

ALLOY DESIGNATIONS

- ASTM B139 C51000 H04
- AMS 4625
- QQ-B-750 Amd 2 Composition A Hard

SUPPLIED FORMS

- Bar
- Castings
- Forgings
- Extrusions

APPLICATIONS

- Architecture: Bridge bearing plates
- Electrical: Terminals, contacts, switch parts, electromechanical spring components, resistance wire, electrical flexing contact blades, electrical connectors, electronic connectors, wire brushes,electronic and precision instrument parts, fuse clips, terminal brackets
- Fasteners: Lock washers, fasteners, cotter pins
- Industrial: Bellows, textile machinery, perforated sheets, chemical hardware, truss wire, mechanical springs, sleeve bushings, diaphragms, clutch disks, welding rods, pressure responsive elements, sprinkler parts, textile machinery parts

CHARACTERISTICS

- Good corrosion resistance
- Moderate strength properties
- Good in for anti-galling concerns
- Excellent machinability
- Low friction properties
- Good stiffness ratios
- Good cold forming properties

MECHANICAL PROPERTIES

Property	Value
Elongation A50 mm	15-25 %
Hardness Rockwell B	78 HRB
Tensile Strength	485 N/mm^2
0.2% Proof Stress	400 N/mm^2

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