







Copper Alloys

AMS 4616 (C65620)

Datasheet Updated 05 August 2021

SPECIFICATIONS

AMS 4616 Aerospace C65620

The preferred choice for anti-friction bearing races and cages.

APPLICATIONS

- Aerospace industry: Anti-friction bearing cages, races and spacers
- Asynchronous motors

CHEMICAL COMPOSITION

Element	% Present
Copper (Cu)	0.00 - 90.00
Iron (Fe)	1.00 - 2.00
Manganese (Mn)	0.00 - 1.00
Silicon (Si)	2.40 - 4.00
Zinc (Zn)	1.50 - 4.00

ALLOY DESIGNATIONS

AMS (UNS65620)

CHARACTERISTICS

- Excellent elongation and swaging performances
- Excellent galling properties
- Good antifriction properties
- Good resistance to oxidation
- Good machinability
- Low magnetic permeability
- Easily machined into complex components
- High strength
- Low friction co-efficient
- Longer lifespan compared to similar metals
- Resistant to corrosion and erosion

SUPPLIED FORMS

- Bar
- Castings
- Forgings
- Extrusions

MECHANICAL PROPERTIES

Property	Value
Elongation A50 mm	30 %
Hardness Rockwell B	55 HRB

DISCLAIMER

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