AUBERT&DUVAL

Aluminium alloy

2050

Al Cu3.5LiAgMn

SPECIFICATIONS

USA : AA 2050

UNS : A92050

COMPOSITION

Copper	3.50
Lithium	1.00
Silver	0.45
Manganese	0.35
Zirconium	0.12
Magnesium	0.04
Aluminum	Base

TYPICAL MECHANICAL PROPERTIES

- Thickness up to 250 mm/10''

T852 forged, closed-die forged, compressed

-Tensile test at room temperature, longitudinal direction

- UTS:	>490 N/mm^2
- 0.2 % Yield strength:	>441 N/mm^2
- Elongation (5d):	>4%
- K1c (L -T direction):	>22 MPa$\sqrt{m}$

Results can vary depending on thickness, refer to AMS4357 to check all the requirements.

APPLICATIONS

- Closed-die forgings for the aerospace industry.
- This alloy has been specifically designed for structural components subject to high fatigue stress and risk of corrosion.
- This alloy allows the manufacturing of very thick parts (up to 250 mm/10'')

CHARACTERISTICS

- This alloy used in the T852 condition achieves a balance between mechanical properties (strength, toughness and fatigue) and stress corrosion resistance.
- Its good hardenability makes it suitable for producing very thick parts

PHYSICAL PROPERTIES

- Density: 2.71

- Modulus of elasticity in N/mm^2: (tensile)
  - at 20°C: 76.1×10^3

Contact:

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