

Aluminium

AMS 4342 T74511 Bar & Extrusion

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	7050
Aerospace	AMS 4342 T74511

High strength aerospace aluminium alloy with good resistance to stress-corrosion cracking.

CHEMICAL COMPOSITION

SAE AMS 4342
Alloy 4342

Element	% Present
Silicon (Si)	0.00 - 0.12
Iron (Fe)	0.00 - 0.15
Copper (Cu)	2.00 - 2.60
Manganese (Mn)	0.00 - 0.10
Magnesium (Mg)	1.90 - 2.60
Chromium (Cr)	0.00 - 0.04
Zinc (Zn)	5.70 - 6.70
Zirconium (Zr)	0.08 - 0.15
Titanium (Ti)	0.00 - 0.06
Other (Each)	0.00 - 0.05
Others (Total)	0.00 - 0.15
Aluminium (Al)	Balance

TEMPER TYPES

- T74511

SUPPLIED FORMS

- Bar
- Tube
- Extrusions

APPLICATIONS

- Aircraft structural parts
- Fuselage frames
- Bulkheads
- Wing skins

CHARACTERISTICS

- High strength
- Good resistance to exfoliation and stress cracking
- Good fracture toughness & fatigue resistance

MECHANICAL PROPERTIES

SAE AMS 4342
Bar

Property	Value
Proof Stress	434 Min MPa
Tensile Strength	503 Min MPa
Elongation A50 mm	6 Min %

DISCLAIMER

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