

SPECIFICATIONS

Commercial	7050
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A high strength aerospace aluminium alloy with good resistance to stress-corrosion cracking.

CHEMICAL COMPOSITION

SAE AMS 4050 Alloy 4050	
Element	% Present
Zinc (Zn)	5.7 - 6.7
Copper (Cu)	2 - 2.6
Magnesium (Mg)	1.9 - 2.6
Iron (Fe)	0.15 max
Zirconium (Zr)	0.08 - 0.15
Others (Total)	0.15 max
Silicon (Si)	0.12 max
Manganese (Mn)	0.1 max
Titanium (Ti)	0.06 max
Other (Each)	0.05 max
Chromium (Cr)	0.04 max
Aluminium (Al)	Balance

MECHANICAL PROPERTIES

These Mechanical Properties are for AMS 4050 Plate in the T7451 temper

Thickness (mm)	Proof Strength (Min)	Tensile Strength (Min)	Elongation % (Min)
Over 6.3 up to & incl. 51	441	510	9
Over 51 up to & incl. 76	434	503	8
Over 76 up to & incl. 102	427	496	6
Over 102 up to & incl. 127	421	490	5
Over 127 up to & incl. 152	414	483	4
Over 152 up to & incl. 178	407	476	4
Over 178 up to & incl. 203	400	469	4

TEMPER TYPES

Alloy AMS 4050 plate is supplied in temper T7451

SUPPLIED FORMS

Alloy AMS 4050 in temper T7451 is supplied as Plate

- Bar
- Extrusions
- Tube

CONTACT

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REVISION HISTORY

Datasheet Updated 05 December 2013

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

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