

Aluminium

6106 T6 Extrusion

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	6106 T6
EN	6106 T6

A wrought alloy with good corrosion resistance.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 6106

Element	% Present
Manganese (Mn)	0.05 - 0.20
Iron (Fe)	0.00 - 0.35
Magnesium (Mg)	0.40 - 0.80
Silicon (Si)	0.30 - 0.60
Zinc (Zn)	0.00 - 0.10
Titanium (Ti)	0.00 - 0.10
Chromium (Cr)	0.00 - 0.20
Copper (Cu)	0.00 - 0.25
Other (Each)	0.00 - 0.05
Others (Total)	0.00 - 0.15
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

TEMPER TYPES

The most common temper for 6106 aluminium is:

- T6

SUPPLIED FORMS

- Extrusions

APPLICATIONS

- Structural applications
- Ladders, pylons and towers
- Railway Rolling Stock
- Marine applications
- Automotive structures

CHARACTERISTICS

- Good corrosion resistance
- Good formability
- Good weldability

MECHANICAL PROPERTIES

BS EN 755-2

Profiles only Up to 10mm Wall Thickness

Property	Value
Proof Stress	200 Min MPa
Tensile Strength	250 Min MPa
Elongation A50 mm	6 Min %
Hardness Brinell	75 HB
Elongation A	8 Min %

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.

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(1 of 2)

