

## Aluminium Alloy 6106 - T6 Extrusions

### SPECIFICATIONS

Commercial	6106
EN	6106

Aluminium alloy 6106 is an extrusion alloy designed to provide optimum combination of mechanical properties, complexity of shape, minimum section thickness and good surface finish together with the good resistance, weld ability and formability associated with the 6000 series alloys.

6000 Series alloys achieve their properties by thermal treatment which can be adjusted to providing combinations of strength and formability with excellent corrosion resistance and weld ability.

### APPLICATIONS

Alloy 6106 is typically used for:

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

### TEMPER TYPE

Our temper for 6106 aluminium is:

- T6 - Solution heat treated and artificially aged

### SUPPLIED FORM

- Extrusion

### FINISH TYPES

- 25um Anodising
- Powder Coating

### CHEMICAL COMPOSITION

BS EN 573-3:2009 Alloy 6106	
Element	% Present
Magnesium (Mg)	0.40 - 0.80
Silicon (Si)	0.30 - 0.60
Iron (Fe)	0.0 - 0.35
Manganese (Mn)	0.05 - 0.20
Copper (Cu)	0.0 - 0.25
Chromium (Cr)	0.0 - 0.20
Others (Total)	0.0 - 0.15
Zinc (Zn)	0.0 - 0.10
Titanium (Ti)	0.0 - 0.10
Other (Each)	0.0 - 0.05
Aluminium (Al)	Balance

### MECHANICAL PROPERTIES

BS EN 755-2:2008 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 %

Above readings refer to profiles in the T6 condition only.