

Aluminium

6262 T6 Bar & Extrusion

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	6262 T6
EN	6262 T6

A heat treatable alloy with additions of copper, lead, silicon, magnesium and bismuth.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 6262

Element	% Present
Manganese (Mn)	0.00 - 0.15
Iron (Fe)	0.00 - 0.70
Magnesium (Mg)	0.80 - 1.20
Silicon (Si)	0.40 - 0.80
Zinc (Zn)	0.00 - 0.25
Titanium (Ti)	0.00 - 0.15
Chromium (Cr)	0.04 - 0.14
Copper (Cu)	0.15 - 1.40
Bismuth (Bi)	0.40 - 0.70
Lead (Pb)	0.40 - 0.70
Other (Each)	0.00 - 0.05
Others (Total)	0.00 - 0.15
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Aluminium alloy 6262 also corresponds to the following standard designations and specifications **but may not be a direct equivalent**:

- AA6262
- Al 1.0Mg 0.6Si Pb
- A96262

PLEASE NOTE: Due to European Environmental Protection Directives:

- 2000/53/CE-ELV – For the automotive sector
- 2002/95/CE-RoHS – For the electrical and electronics sector

This alloy has been replaced by Alloy 6026 which has a lower lead content.

TEMPER TYPES

The most common tempers for 6262 aluminium are:

- T9
- T6

SUPPLIED FORMS

- Bar
- Tube
- Extrusions

APPLICATIONS

- Screw machine products
- Camera parts
- Nuts
- Couplings
- Marine fittings
- Decorative hardware and appliance fittings
- Hinge pins
- Oil line fittings
- Valves and valve parts

CHARACTERISTICS

- Very good corrosion resistance
- Very good strength
- Excellent machinability and surface finish due to additions of bismuth
- High-speed steel or carbide tooling can be used to obtain smooth finishes. Heavy cutting requires oil lubricant but light cutting can be done dry
- Alloy 6262 can be used in place of 2011 when higher corrosion resistance and better anodising response is required

MECHANICAL PROPERTIES

BS EN 755-2

Rod & Bar Up to 200mm Dia. & A/F

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	260 Min MPa
Elongation A50 mm	8 Min %
Hardness Brinell	75 HB
Elongation A	10 Min %

BS EN 755-2

Tube Up to 25mm Wall Thickness

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	260 Min MPa
Elongation A50 mm	8 Min %
Hardness Brinell	75 HB
Elongation A	10 Min %

BS EN 755-2

Profiles Up to 25mm Wall Thickness

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	260 Min MPa
Elongation A50 mm	8 Min %
Hardness Brinell	75 HB
Elongation A	10 Min %

DISCLAIMER

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