SPECIFICATIONS

Commercial	6262
EN	6262

Aluminium alloy 6262 is a heat treatable alloy with very good corrosion resistance and strength. Additions of bismuth to the alloy mean that 6262 has excellent machinability and surface finish.
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.

Applications
6262 is commonly used in the manufacture of:
Screw machine products
Camera parts
Nuts
Couplings
Marine fittings
Decorative hardware and appliance fittings
Hinge pins
Oil line fittings
Valves and valve parts

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This alloy has been replaced by Alloy 6026 which has a lower Lead content.

CHEMICAL COMPOSITION

BS EN 573-3:2009
Alloy 6262

Element	% Present
Magnesium (Mg)	0.80 - 1.20
Copper (Cu)	0.15 - 1.40
Silicon (Si)	0.40 - 0.80
Lead (Pb)	0.40 - 0.70
Bismuth (Bi)	0.40 - 0.70
Iron (Fe)	0.0 - 0.70
Zinc (Zn)	0.0 - 0.25
Chromium (Cr)	0.04 - 0.14
Titanium (Ti)	0.0 - 0.15
Manganese (Mn)	0.0 - 0.15
Others (Total)	0.0 - 0.15
Other (Each)	0.0 - 0.05
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This alloy has been replaced by Alloy 6026 which has a lower Lead content.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 - Solution heat treated, artificially aged and cold worked
- T6 - Solution heat treated and artificially aged

SUPPLIED FORMS

Alloy 6262 is supplied as round bar for machining

- Bar

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm³
Melting Point	582 °C
Thermal Expansion	23.4 x10^{-6} /K
Modulus of Elasticity	68.3 GPa
Thermal Conductivity	172 W/m.K
Electrical Resistivity	0.039 x10^{-6} Ω .m

MECHANICAL PROPERTIES

BS EN 755-2:2008
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 %

Properties above are for material in the T6 condition

BS EN 755-2:2008
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 %

Properties above are for material in the T6 condition

BS EN 755-2:2008
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 %

Properties above are for material in the T6 condition

WELDABILITY

Alloy 6262 is readily weldable by all commercial methods and can also be brazed.

Weldability – Gas: Excellent
Weldability – Arc: Excellent
Weldability – Resistance: Excellent
Brazability: Excellent

FABRICATION

Workability – Cold: Poor
Machinability: Excellent

CONTACT

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REVISION HISTORY

Datasheet Updated	18 July 2019

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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