

Grade 6262 aluminium is a heat treatable alloy with additions of copper, lead, silicon, magnesium and bismuth. The addition of lead and bismuth impart the excellent machinability of grade 6262. While the magnesium, copper and silicon combine to enhance the mechanical strength and corrosion resistance of the alloy. The 6262 aluminium can be hardened by cold working or by a combination of aging and subsequent cold working.

As a result of its machinability either high-speed steel or carbide tooling can be used to obtain smooth surface finishes (light cuts may be possible without lubrication). In turn the excellent finish of machined parts allows the material to be anodised with ease. Grade 6262 can also be used in place of 2011 when higher corrosion resistance and better anodising response is required.

Chemical Composition

Aluminium	Rem	Silicon	0.4-0.80%
Copper	0.15-0.40%	Iron	0.70% max
Manganese	0.15% max	Magnesium	0.8-1.2%
Zinc	0.25% max	Titanium	0.15% max
Bismuth	0.4-0.70%	Lead	0.4-0.70%
Chromium	0.04-0.14%	Total Others	0.15 max

Related Specifications

AA6262	Al1.0Mg0.6SiPb
UNS96262	QQ A-225/10
6262	ASTM B467 / B483

Key Features

- Very good corrosion resistance
- Excellent weldability
- High Mechanical strengths
- Very good machinability

Typical Physical Properties

Melting Point	588°C
Density	2.71 g/cm ³
Thermal conductivity	172 W/m ² K
Thermal expansion coefficient	23.4 x 10 ⁻⁶
Electrical resistivity	0.0339 microhm m
Modulus of elasticity	68 GPa

Fabrication Properties

Cold Formability	Average
Machinability	Excellent
Brazing	Excellent
Gas Shielded Arc Welding	Excellent

Manual Metal Arc Welding	Excellent
Resistance Welding	Excellent

Typical Applications

Grade 6262 is generally used in applications such as; screw machine products, camera parts, nuts, couplings, marine fittings, decorative hardware and appliance fittings, hinge pins, oil line fittings, valves and valve parts.

This technical information is given by Holme Dodsworth Metals without charge and the user shall employ such information at their own discretion and risk. For more detailed technical advice on temper selection, fabrication, joining, machining, physical and mechanical data please contact us as space does not permit the listing of every feature of the material.