



Formosa Shyen Horng Metal Sdn. Bhd. (Co. No: 434300-K)

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Alloy 6063

Chemical Composition Limits (in %)

Fe	Si	Zn	Cu	Mg	Mn	Ti	Other elements each
<0.25	0.38-0.46	<0.10	<0.10	0.45-0.55	<0.10	≤0.03	<0.10

Typical Physical Properties

Density	2.7 g/cm ³
Modulus of elasticity	69.5 Gpa
Thermal conductivity at 25°C (298K)	200 W/m.k
Melting Point	655°C
Electrical Resistivity	0.035 x 10 ⁻⁶ Ω.m

Mechanical Properties

Property	T5	T6
0.2% Proof Stress	110 Mpa- 175 Mpa	170 Mpa- 210 Mpa
Tensile Strength	150 Mpa - 215Mpa	205 Mpa - 245 Mpa
Elongation A5	> 8 %	> 7 %
Hardness (webster)	≥ 8	≥ 10

Weldability

Weldability - Gas : Very Good

Weldability - Arc : Very Good

Weldability - Resistance : Very Good

Brazability : Very Good

Solderability : Good

Fabrication

Workability - cold : Average

Machinability : Average

Anodising : Very Good

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. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards. As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.