

## 1. Specification of Aluminium heatsink

Item Name	Aluminium heatsink
Material Grade	Alloy 6000 Series
Temper	T5–T6
Technology	Aluminum Extrusion
Surface treatment	Mill finish, anodizing, powder coated, sandblasting, electrophoresis etc
Color	Silvery white, black, golden, champagne, dark bronze or according to your requirement
Shape	Square, Round, Flat, or according to customers' drawings
Deep processing	cutting, drilling, punching, bending etc
2D&3D Design	1: 4 Designers in design and development department 2: Auto CAD, 3D, AI, SLD, PRT. IGS, PDF, JPEG etc.
Engineering& Tooling	1: 8 Engineers in Mold Shop. 2: Use high tonnage extruder, Wire EDM, CNC, Drilling machines etc.
Processing Technology	1: Surface Finishing 2: Fixture Building 3: Tooling & Die Building 4: Small Batch Samples 5: Custom Wire Forming 6: Aluminum Extrusion Parts 7: Turning /CNC Machining 8: Milling /CNC Machining 9: Tapping 10: Hole Popping 11: Precision Grinding 12: Reel-to-Reel Plating 13: Metal Finishing Services 14: Assembly 15: Tumbling / Deburring
Quality Control	1.ISO Approved. 2.Inspection at Site. 3.Inspection Before Shipping. 4.Testing Machine.

## 2. Table of Chemical Composition of Aluminum heatsink

Si	Mg	Fe	Cu	Mn	Zn	Cr	Ti	Impurity		Al
								Unit	Total	
02-06	0.45-0.9	<0.35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.15	Surplus
0.4-0.8	0.8-1.2	<0.7	0.15-0.4	<0.15	<0.25	0.04-0.35	<0.15	<0.05	<0.15	Surplus
0.-0.6	0.35-0.6	0.1-0.3	≤0.1	≤0.1	≤0.15	≤0.05	<0.1	<0.05	<0.15	Surplus
0.6-0.9	0.4-0.6	0.35	0.1	0.1	0.1	0.1	0.1	0.05	<0.15	Surplus

## 3. Technical Data of Aluminum heatsink

Alloy	Temper	Thickness	Tensile Strength	Yield Strength	Vickers Hardness	Webster Hardness
6005	T6	≤5	≥270MP	≥225MP		
	T6	5<e≤10	≥260MP	≥215MP		
	T6	10<e≤25	≥250MP	≥200MP		
6060	T6	≤3	≥190MP	≥150MP		
	T6	3<e≤25	≥170MP	≥140MP		
6061	T6		≥265MP	≥245MP	HV≥58	HW≥8
6063	T5		≥160MP	≥110MP	HV≥58	HW≥8
	T6		≥205MP	≥180MP	HV≥58	HW≥8