

SPECIFICATION SHEET

Aluminum Profile For Radiator

Shanghai Metal Corporation (SMC) is the leading manufacturer and supplier of Aluminum Profile For Radiator. We provide various styles of special pipes available in different sizes of excellent quality at reasonable price. We are glad to customize products according to your request.

No	Alloy	Size	Temper
1	6000 series	Customized	T3, T4, T5, T6, T7, etc

Chemical composition (%)

Standard: GB/T 3190-2008

Grade	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
6061	0.40-0.8	0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.35	-	0.25	0.15	Rest
6063	0.2-0.6	0.35	0.10	0.10	0.45-0.9	0.10	-	0.10	0.10	Rest
6082	0.7-1.3	0.50	0.10	0.40-1.0	0.6-1.2	0.25	-	0.20	0.10	Rest

*1 Coil samples bending 90°, t – thickness of coil

Mechanical Properties

Standard: GB/T 3880.2-2006

Alloy	Alclad classify	Temper	Sample Temper	Thickness /mm	Tensile strength R _m /MPa	Yield strength R _{p0.2} /MPa	Elongation/%		HBW Typical value
							A	A ₅₀	
6061	-	T4	T4	≤25	180	110	15	13	65
		T6	T6	≤5 5<t≤25	260 260	240 240	9 10	7 8	95 95
6082	-	O,H111	O,H111	all	Max.160	Max.110	14	12	35
		T4	T4	≤25	Min.205	Min.110	14	12	70
		Open profile T5	Open profile T5	≤5	Min.270	Min.110	8	6	90
		Open profile T6	Open profile T6	≤5 5<t≤25	Min.290 Min.310	Min.250 Min.260	8 10	6 8	95 95
		Hollow profile T5	Hollow profile T5	≤5	Min.270	Min.230	8	6	90
		Hollow profile T6	Hollow profile T6	≤5 5<t≤25	Min.290 Min.310	Min.250 Min.260	8 10	6 8	95 95
		T73,T73510,T73511	T6,T6510,T6511	≤25	Min.485	Min.420	7	5	135

Physical Properties

Property	Value	Unit
Density(20°C)	2.72	g/cm ³
Melting Point	620-650	°C
Thermal Expansion	23.5	(10-6K-1)(20/100°C)
Specific heat capacity	899	J/(Kg.K)(0/100°C)
Modulus of Elasticity	70	GPa
Thermal Conductivity	205	W/(m. K) 20°C
Resistivity	32	nΩ .m

Formability
Very Good

Weldability
Good

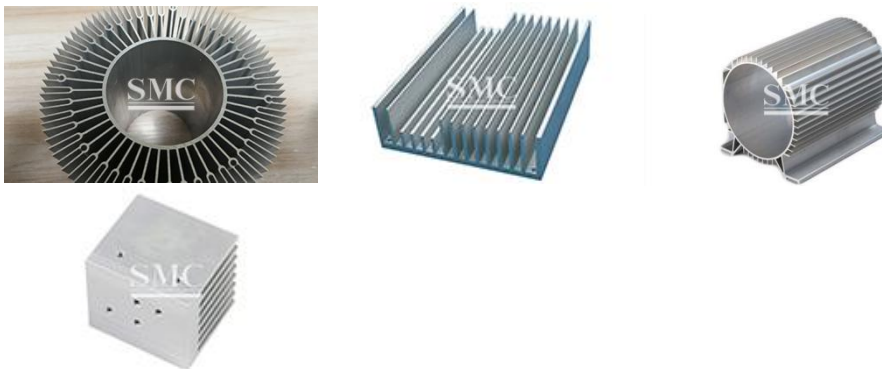
Machinability
Very Good

Corrosion Resistance
Very Good

Applications

1. For Pipe Integration

Products



Packing

Shanghai Metal Products are packed and labeled according to the regulations and customer's requests. Great care is taken to avoid any damage which might be caused during storage or transportation. In addition, clear labels are tagged on the outside of the packages for easy identification of the product I. D. and quality information.

- 1) Shanghai Metal Standard
- 2) Customization

