

SPECIFICATION SHEET

EMBOSSED ALUMINUM SHEET/COIL

Aluminium embossed sheet is a kind of aluminum product which form a variety of decorative pattern on the surface after rolling process on the basis of the aluminum sheet, it is widely used, mainly in packing, building, curtain wall, etc.

No	Alloy	Thickness	Width	Length
1	1100,1060	0.2-1.2 mm	100 – 1200 mm	100-16000 mm As per customer request.
	3003			
	5052, 5754			
	6061, 6063, 6082			

CHEMICAL COMPOSITION (%)

Standard: GB/T 3190-2008

Grade	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
1060	0.25	0.35	0.05	0.03	0.03	-	-	0.05	0.03	99.6
1100	0.95 Si+Fe		0.05-0.20	0.05	-	-	-	0.10	-	99.0
3003	0.6	0.7	0.05-0.20	1.0-1.5	-	-	-	0.10	-	remain
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	-	0.10	-	remain
5754	0.40	0.40	0.10	0.50	2.6-3.6	0.30	-	0.20	0.15	remain
6061	0.4-0.8	0.70	0.15-0.4	0.15	0.8-1.2	0.04-0.35	-	0.25	0.15	remain
6063	0.2-0.6	0.35	0.10	0.10	0.45-0.9	0.10	-	0.10	0.10	remain
6082	0.7-1.3	0.50	0.10	0.40-1.0	0.6-1.2	0.258	-	0.2	0.10	remain

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/%		Bending Radius*1
							A _{50mm}	A _{5.65}	
1060	-	H22	H22	>0.50-1.20	80-120	60	6	-	-
				>0.20-0.30			1	-	-
				>0.30-0.50	95-135	70	2	-	-
				>0.50-0.80			2	-	-
>0.80-1.20	4	-	-						
1100	-	H22	H22	>0.20-0.50	95-130	75	3	-	0t
				>0.50-1.20			5	-	0t
				>0.20-0.30	110-145	95	1	-	0t
				>0.30-0.50			2	-	0t
>0.50-1.20	3	-	0t						
3003	-	H22	H22	>0.20-0.50	120-160	80	6	-	0t
				>0.50-1.20			7	-	0.5t
				>0.20-0.50	145-195	115	4	-	0.5t
				>0.50-1.20			4	-	1.0t
5052	-	H22	H22	>0.20-0.50	210-260	130	5	-	0.5t
				>0.50-1.20			6	-	1.0t
				>0.20-0.50	230-280	150	4	-	0.5t
				>0.50-1.20			5	-	1.5t

Alloy	Alclad classify	Temper	Sample Temper	Thickness /mm	Tensile strength R _m /MPa	Yield strength R _{p0.2} /MPa	Elongation/%		Bending Radius*1
							A _{50m3m}	A _{5.65}	
5754	-	H22	H22	>0.20-0.50	220-270	130	7	-	0.5t
				>0.50-1.20			8	-	1.0t
		H24	H24	>0.20-0.50	240-280	160	6	-	1.0t
				>0.50-1.20			6	-	1.5t
6061	-	T6	T6	>0.40-1.20	290	240	6	-	2.5t
6063	-	T6	T6	>0.50-1.20	240	190	8	-	-
6082	-	T6	T6	>0.40-1.20	310	260	6	-	2.5t

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

PHYSICAL PROPERTIES

Property	Value	Unit
Density(20°C)	2.67-2.72	g/cm ³
Melting Point	580-660	°C
Thermal Expansion	23.5-23.8	(10-6K-1)(20/100°C)
Specific heat capacity	895-904	J/(Kg.K)(0/100°C)
Modulus of Elasticity	69-71	GPa
Thermal Conductivity	172-225	W/(m. K) 20°C
Resistivity	29.2-38	nΩ .m

Formability

Very Good

Weldability

Good

Machinability

Very Good

Corrosion Resistance

Very Good

APPLICATIONS

Embossed aluminum sheet has pebble-like surface with a wide variety of uses and applications to cover walls, as sheet metal for trailers, airports, and commercial kitchens.

PRODUCTS



PACKING

Embossed Aluminum Sheet/Coil package meet the export standard. Plastic film can be covered at customers' need. Wooden case or wooden pallet is adopted to protect products from damage during the delivery.

