



HENAN FLAIT ALUMINUM CO., LTD.

Flait Aluminum is committed to product R&D, production, sales and service.

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Brazing aluminum sheet coil strip

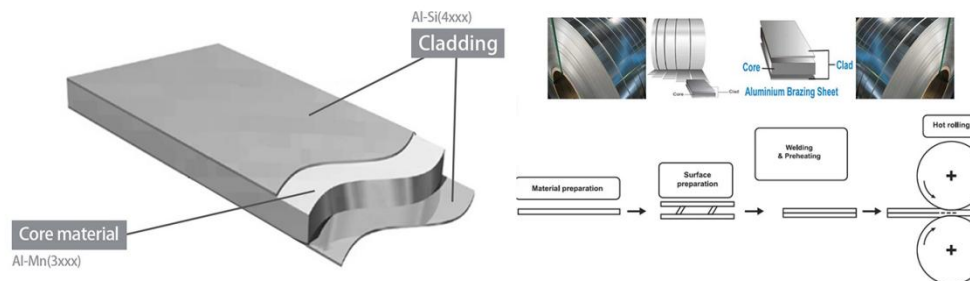
[Brazing aluminum sheet](#) is also called aluminum alloy brazing sheet, aluminum brazing sheet, aluminum brazing composite sheet, aluminum brazing cladding sheet, etc., which belongs to a kind of aluminum sheet commonly used in industrial production. The main products of brazed aluminum sheets are 3xxx and 4xxx series aluminum alloy sheets. Commonly used alloys for brazing aluminum plates coils strips are: 4045/3003, 4343/3003, 4045/3003/4045, 4343/3003/4343, 4343/3003/7072 and etc. Brazing aluminum sheets are used in the fields of radiators for electronic appliances and automobile industry, such as: air conditioner condensers, radiators, radiators for electronic components, etc.

Fundamental Brazing Sheet Cladding Structure

Brazing layer material: Al-Si alloys (4xxx Series)

Core material: Al-Mn alloys (3xxx Series), Al-Si-Mg Alloys (6xxx Series)

Sacrificial anode material (Anticorrosive coating): AL-Zn-Cr alloy (7072)



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Product Specification

Alloy	Core 30033003+Zn3003MOD	Brazing clad for CAB 434340454047	Brazing clad for VAC 4104 4A13	Contact-water clad 7072
Temper	O,H12,H14,H16,H18,H22,H24,H26			
Thickness(mm)	0.5~5.0mm			
Width (mm)	500-1200mm			
Length (mm)	C			
Clad Rate	4-18% per side, or customer requested			
Tensile Strength (MPa)	Depending on different material/temper			
Yield Strength (MPa)	Depending on different material/temper			
Elongation (%) Min	Depending on different material/temper			
Packing	Export standard package			
Normal Alloys Plates	4045/3003, 4343/3003, 4045/3003/4045, 4343/3003/4343, 4343/3003/7072 and etc.			





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Mechanical Property								
Alloy	Temper	Thickness(mm)	Tolerance(mm)	Clad Ratio(%)	Tensile Strength(MPa)	Yield Strength(MPa)	Elongation (%)Min	Application
3003	H14	0.06~0.1	±0.005	None	150~200	≥120	1	Radiator fin and plate
4043/3003/4043	H14	0.06-0.1	±0.005	8-12	150-200	≥120	1	
4045/3003/4045	H14	0.1~0.12	±0.005	8-12	150-200	≥120	1	Charge air
4343/3003	O	1.2-3.0	±0.03	5-10	100-150	≥45	25	Radiator fin and plate
4343/3003/7072	O	1.2-3.0	±0.03	5-10	100~150	≥45	25	
4343/3003/4343	O	0.4-0.5	±0.02	8-12	100-150	≥45	27	Evaporator fin and plate
4045/3003/4045	O	0.8-1.2	±0.03	8-12	100-150	≥45	27	
4045/3003/4045	O	0.5-0.8	±0.02	15-20	100-150	≥45	25	Oil cooler
4104/3003/4104	H14	0.6-0.8	±0.02,±0.03	13-17,8~12	150-200	≥120	3	Engineering machinery
4004/3003/4004	H14	0.6~0.8,1.2~1.5	±0.02 ±0.03	13-17 8-12	150-200	≥120	3	

Note: Alloy, specification and mechanical property can be customized according to different requirements.





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Alloy solidus/liquidus temperature and recommended brazing temperature								
Aluminum Alloy	Core		Brazing Clad					
	3003	3003+Zn 3003+MOD	7072	4343	4045	4047	4A13	4104
Solidus Temperature /°C	643	641	646	577	577	577	577	559
Liquidus Temperature /°C	654	653	657	615	590	580	615	591
Recommended Brazing Temperature /°C	-	-	-	600-620	590-605	580-605	600-620	590-605

Advantages

1. High strength and excellent welding performance; good mechanical property and surface condition.
2. Good heat resistance and high temperature resistance, and has a certain corrosion resistance.
3. Excellent processing performance, small deformation and easy forming; excellent collapse resistance during brazing.
4. There are no pores, cracks and other phenomena in the welding, the surface of the welded joint is bright, and the fillet is even.
5. Flait Aluminum provides various specifications for fin and brazing aluminum plate coil strip.





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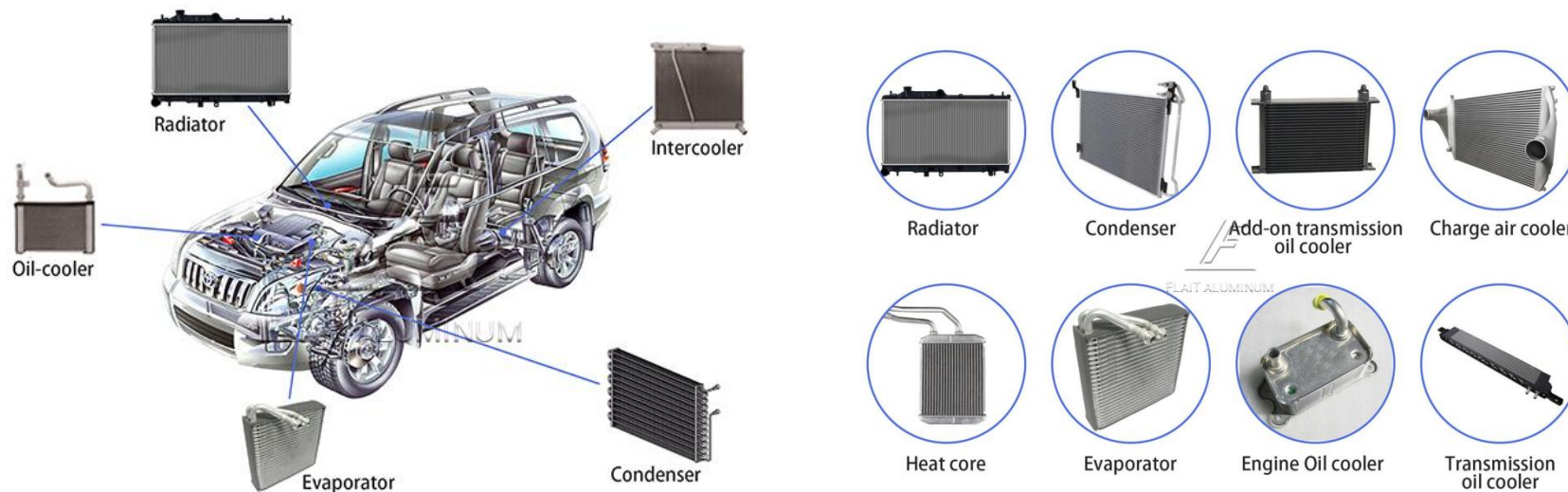
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Application

Brazing aluminum sheets coils strips are widely used in the fields of dynamic heat exchangers such as new energy vehicles, construction machinery, rail transit, shipping and aviation, as well as static heat exchangers such as household air conditioners, commercial refrigeration, industrial heat exchange, and so on.

Typical application of brazing aluminum sheets coils strips is: radiator system and air conditioning system of traditional fuel vehicles and new energy vehicles.



The above mentioned aluminum product is produced according to national standard specifications. Please contact us for a free quote!

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