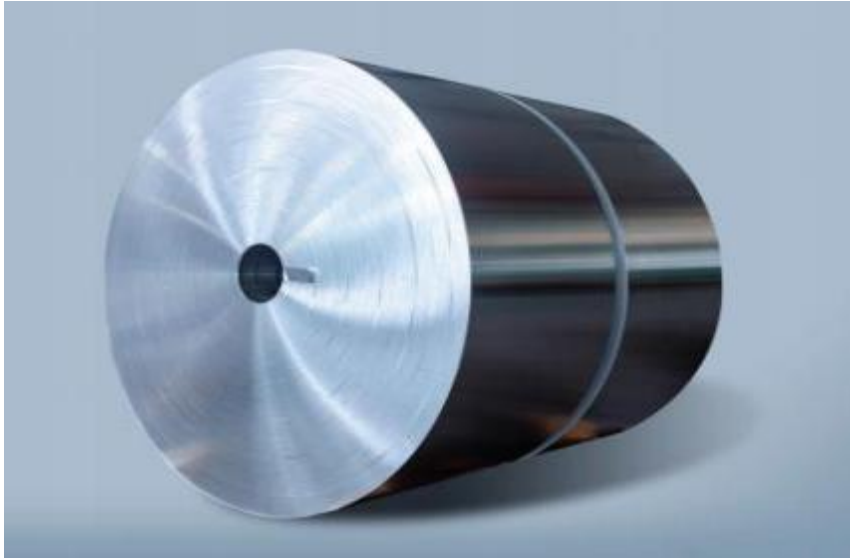


Aluminium and Aluminium Alloy Cladding material



Wanjia new material is a leading manufacturer for Brazing Aluminium Alloy composite material, after years of accumulation, the group have formed a complete Aluminium alloy research and developments, production system, can meet different technical requirements. Currently, we produce and offer a full range of rolled aluminium products for heat exchanger manufacturers, including different series of aluminium, various specification and temper, which are widely used in automotive,

construction machine, micro-channel condensers, evaporators, power plant, air-conditioner for residents and business, and battery case/foil for new energy vehicle. monthly capacity of about 4000mts

Automotive Brazing Composite Aluminum Coil. It is a composite material composed of two or more different metal materials. This aluminum coil usually consists of alternating layers of aluminum and other metals to provide excellent mechanical properties and corrosion resistance. which is widely used as such as radiators, condensers, evaporators, and heat exchangers.



Main specification

item	commodity	Alloy	Temper	Main specification (mm)			Main Application
				thickness	width	length	
1	Cladding strip/foil	4343/ZX309/4343 4045/ZX309/4045	H14/H16	0.07-0.3	12-600mm	Coil/strip	Automobile heat exchanger fin
2	Cladding sheets (thickness 0.4-0.9mm)	4343/3003/4343 4045/3003/4045	O	0.4-0.9	40-1240mm	Coil Max.2000mm	Stacked Evaporators
3	Cladding Plate (thickness 1.0-4.0mm)	4343/3003/4343 4045/3003/4045 4343/ZX307/7072 4343/3003 4045/3003	H14/O	1.0-4.0	16-1240mm	Coil Max.2000mm	Main board, side board of heat exchanger
4	Cladding plate for cooling plate	4343/ZX307/7072 4343/ZX308	O	1.0-2.5	1000-1240mm	750-2500mm	Water cooling plate for power storage
5	Non-cladding strip	3003+zn 3003B	H14/H16	0.07-0.3	12-600mm	Coil/strip	Automobile heat exchanger fin
6	Non-cladding plate	3003 ZX303	H14/O	1.0-4.0	16-1240mm	Coil Max.2000mm	Main board, side board of heat exchanger
7	6061 automobile plate	6061	O	1.5-2.5	800-1300mm	800-2500mm	Automobile decoration

The application of brazing aluminum sheet foil coil strip

The Brazing aluminum sheet foil coil strip, also known as Al-Si brazing material, is the most widely used aluminum-based brazing material. The typical AL-SI dual series of brazing material is 4343, 4045, 4047, etc.

The Brazing aluminum sheet foil coil strip are widely used in automotive heat exchange systems, such as engine radiators, engine oil radiator, medium refrigerator, air-conditioning condenser and evaporator etc.



The classification of brazing aluminum sheet foil coil strip

Brazing aluminum sheet foil coil strip can be divided into aluminum alloy clad materials such as single -sided cladding, double -sided cladding, etc.

The non-clad materials of aluminum alloy are mainly supporting the use of clad aluminum brazing material for manufacturing various welding heat exchangers.

The typical combination of welding brazing alloy is 4045/3003/4045, 4045/3003/7072, 4045/3A11/4045 4045/7A11/7072, 4343/3003/4343 etc



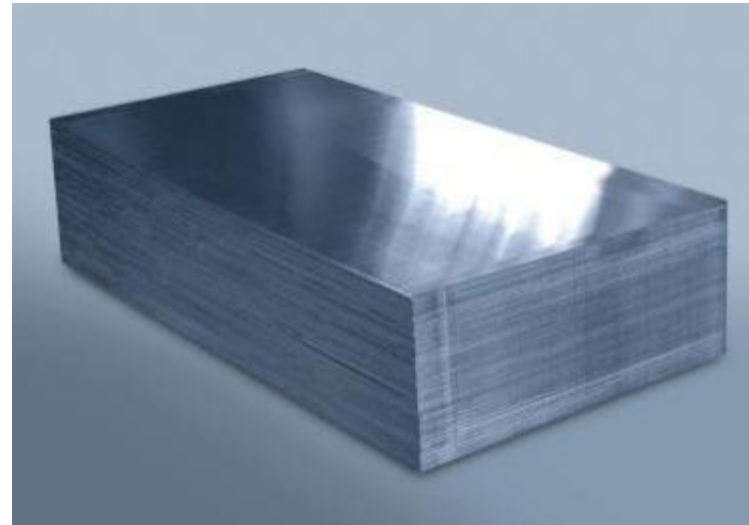
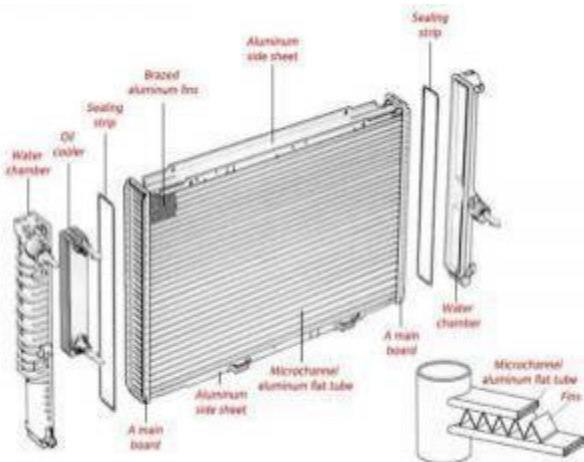
Main alloy grades for auto brazing composite aluminum coil

3000 series: such as 3003, 3103, etc., have good corrosion resistance and formability, and are suitable for the manufacture of air-conditioning equipment, radiators and other auto parts.

4000 series: such as 4045, 4343, etc., have excellent brazing performance and strength, and are suitable for manufacturing automotive radiators, condensers and other parts.

5000 series: such as 5052, 5182, etc., have good formability and corrosion resistance, and are suitable for manufacturing automobile body panels, doors and other components.

6000 series: such as 6061, 6063, etc., have good strength, wear resistance and corrosion resistance, and are suitable for manufacturing automotive engine parts, body structures, etc.



7000 series: such as 7072, etc., have high strength, corrosion resistance and fatigue resistance, and are suitable for manufacturing high-strength components such as automotive braking systems and suspension systems.

Aluminium Alloy Solidus/liquidus Temperature and Recommended Brazing temperature

	Core material		Brazing clad					
Aluminium Alloy	3003	3003 + Zn 3003 MOD	7072	4343	4045	4047	4A13	4104
Solidus temperture (°C)	643	641	646	577	577	577	577	559
Liquidus temperture (°C)	654	653	657	615	590	580	615	591
Recommended Brazing Temperature				600- 620	590- 605	580- 605	600- 620	590- 605