

Alloy	Main type	Status Of some products	Typical use
1050	sheet,strip,foil	O,H12,H14,H16,H18	The electric conductor can be applied to extruded coil pipe in food, chemical and brewing industry, various flexible pipe, shipping accessory and small hardware etc
	Tube, bar,wire	O,H14,H18	
	Extruded tube	H12	
1100	sheet,strip	O,H12,H14,H16,H18	It power boasts excellent machinability, high corrosion resistance, good weldability and conductivity.It is widely applied to product, which requires apparatus, thin sheet processed piece, drawn or spinningconcave ware, welding part, heat exchanger, clock surface and surface plate, plate kitchenware, ornaments and reflection instrument
	plate	O,H12,H14,H112	
	Drawn tube	O,H12,H14,H16,H18,H113	
	Extruded tube/section/bar/wire	O,H112	
	cold working bar/wire	O,H12,H14,F	
3003	sheet	O,H12,H14,H16,H18	It is used to process spare part, which requires good shaping property, high corrosion resistance or weldability, and/or strength higher than that of grade containing liquidproduct, pressure vessel, storage airplane oil tank,oil guide conduit, reflection sheet,kitchen equipment, washing cylinder, rivet and soldering wire.
	plate	O,H12,H14,H112	
	Drawn tube	O,H12,H14,H16,H18,H113	
	Extruded tube/section/bar/wire	O,H112	
	cold working bar	O,H12,H14,F	
5052	sheet	O,H32,H34,H36,H38	The alloy boasts good shaping property, high corrosion resistance, weldability and fatigue strength, medium static strength, is used to make airplane oil tank,oil pipe,metal sheet and instrument for vehicle and vessel, street lamp post and riveted wire
	plate	O,H32,H34,H112	
	cold working bar	O,F,H32	
	cold working wire	O,H32,H34,H36,H38	
5083	sheet	O,H116,H321	It is applied to componments requiring high corrosion resistance, good weldability and medium strength, such as soldering part for vessel, vehicle and airplane, pressure vessel placing demanding requirement in fire prevention,cooling device, television tower,drilling equipment, transportation equipment,missile componment and armor
	plate	O,H112,H116,H321	
	Extruded tube/section/bar/wire	O,H111,H112	
	forging piece	H111,H112,F	
5086	sheet	O,H112,H116,H36,H38	It is applied to product requiring high corrosion resistance, good weldability and medium strength, such as naval vessel,automobileplane,low-temperature, equipment,television tower,drilling equipment,transportation equipment,missile component and armor
	plate	O,H112,H116,H321	
	Extruded tube/section/bar/wire	O,H111,H112	
2011	Drawn tube	T3,T4511,T8	screw and mechanical product requiring high machinability
	cold working bar	T3,T4511,T8,T4	

	cold working wire	T3,T8	
2017	plate	O,T4	The product is the first alloy in 2xxx series to be applied to industry field.At present, the alloy is mainly applicable to screw,common mechanical spare part, airplane, vessel,transportation, architecturestructural
	Extruded section	O,T4,T4510,T4511	
	cold working bar/wire	O,T13,T4,T451	
	Rivet wire	T4	
	forging piece	F,T4	
2024	sheet	O,T3,T361,T4,T81,T861	Airplane structural piece(casting, framework, ribbeam and bulkhead),rivet,missile component and other structural components
	plate	O,T351,T361,T851,T861	
	Extruded tube/section/bar/wire	O,T3,T3511,T81,T8511	
	cold working bar/wire	O,T31,T351,T4,T6,T851	
	Riveted wire	T4	
6061	sheet	O,T4,T6	The alloy can be anodized so it is applied to various structural component requiring medium strength, high weldability and corrosion resistance, such as plate, tube, bar and section material used intruck, tower building, vessel,trolley, railway vehicle and furniture
	plate	O,T451,T651	
	Drawn tube	O,T4,T6	
	Extruded tube/section/bar/wire	O,T4,T6,T6510,T6511	
	Rolling or extruded structural section	T6	
	cold working bar	O,H13,T4,T6	
	cold working wire	T94	
	Rivet wire	T6	
6063	Drawn tube	O,T4,T6,T83	Building section bar, irrigation pipe, extruded material for vehicle, platform,furniture,lift and rail, decorative component in different colors applicable to airplane,vessel, light industry and architecture
	Extruded tube/section/bar/wire	O,T1,T4,T5,T6	
	guide tube	T6	
6262	Extruded tube	T2,T6,T62,T9	It is applied to screw-threadedmechanical component with high stress(high machinability),corrosion resistance of which should be higher
	Extruded tube/section/bar/wire	T6,T6510,T6511,T62	
	cold working bar/wire	T6,T651,T62,T9	
7075	sheet	O,T6,T73,T76	It is applied to make airplane structural component and other structural component with high stress requiring high strength and corrosion resistance, such as surface plate of airplane upper and lower wings,purlin and bulkhead.It has high plasticity after solution treatment, good reinforcement performance after heat treatment, high strength in the condition under 150°C,excellent low-temperature
	plate	O,T651,T7351,T7651	
	Drawn tube	O,T6,T73	
	Extruded tube/section/bar/wire	O,T6,T76,T6511,T76511	
	Rolling or cold working bar	O,T6,T651,T73,T7351	
	cold working wire	O,H13,T6,T73	bad weldability,liable to crack under stress corrosion, double-aging

Common Questions on Aluminum Alloy Applications:

Q: What is the best aluminum alloy for marine and pressure vessel applications? A: According to the application table, 5083 aluminum alloy is ideal for vessels, vehicles, and airplane pressure vessels due to its high corrosion resistance and medium strength.

Q: Which aluminum grade is recommended for high machinability in screw production? A: 2011 aluminum alloy is specifically used for screws and mechanical products that require high machinability.

Q: Does Channov Precision provide CNC machining for 5000 series aluminum? A: Yes, we specialize in precision machining of 5052, 5083, and 5086 aluminum alloys for automotive, aerospace, and missile components.

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