

<Aluminum alloy>

Aluminum alloy with purity of 99.00% or more is pure aluminum, and aluminum alloys improve properties such as increasing strength by adding various elements.

Aluminum alloys are roughly classified into rolling alloys to be processed into plates, foils, profiles, pipes, bars and forgings, casting alloys such as castings and die castings, depending on the properties required for individual applications. Also, they can be classified as non-heat treatment type alloys and heat treatment type alloys respectively.

The non-heat treatment type alloy is mainly cold working such as rolling processing, and the heat treatment type alloy is an alloy which obtains predetermined strength by heat treatment such as quenching and tempering.

■ Rolling alloy

① Non-heat treated alloy: pure aluminum (1000 series), Al - Mn alloy (3000 series)

Al - Si alloy (4000 series), Al - Mg type alloy (5000 series)

② Heat treatment alloy: Al - Cu - Mg alloy (2000 series), Al - Mg - Si alloy (6000 series)

Al - Z n- Mg alloy (7000 series)

■ Alloy for casting

① Alloys for sand molds and metal castings

- Non-heat treated alloy

Al - Si alloy (AC 1 B alloy), Al - Mg alloy (AC 7A alloy)

- Heat treatment alloy

Al - Cu - Mg alloy (AC 1 B), Al - Mg - Si alloy (AC 2 A, AC 2 B)

Al - Cu - Ni - Mg alloy (AC 5 A), Al - Si - Mg alloy (AC 4 A, AC 4 C, AC 4CH alloy)

Al - Si - Cu alloy (AC 4 B alloy), Al - Si - Cu - Mg (AC 4D alloy)

Al - Si - Ni - Cu - Mg alloy (AC8A, AC8B, AC8C alloy),

Al - Si - Cu - Mg - Ni alloy (AC9 A, AC9 B alloy)

② Alloy for die casting

<Shape>

① Sheet material: can, cap, automobile, heat exchanger, printing, foil, equipment, construction, vehicles / ships and aircraft, etc.

② Shaped material: automobiles, vehicles and ships, electric machines, aircraft, color aluminum profile and ultra small precision profile etc.

③ Tubes and bars: heat exchangers, optical equipment, office equipment, electric machines, chemical industry, building use, space and aircraft, etc.

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