

GENERAL APPLICATION AND CHARACTERISTICS OF WROUGHT ALUMINUM ALLOYS SERIES

1000 SERIES : Controlled unalloyed (pure) composition, used primarily in the electrical and chemical industries

2000 SERIES : Alloys in which copper is the principal alloying element, although other elements, notably magnesium, may be specified. 2xxx-series alloys are widely used in aircraft where their high strength (yield strengths as high as 455 MPa, or 66 ksi) is valued.

3000 SERIES: Alloys in which manganese is the principal alloying element, used as general-purpose alloys for architectural applications and various products

4000 SERIES: Alloys in which silicon is the principal alloying element, used in welding rods and brazing sheet

5000 SERIES: Alloys in which magnesium is the principal alloying element, used in boat hulls, gangplanks, and other products exposed to marine environments

6000 SERIES: Alloys in which magnesium and silicon are the principal alloying elements, commonly used for architectural extrusions and auto-motive components

7000 SERIES: Alloys in which zinc is the principal alloying element (although other elements, such as copper, magnesium, chromium, and zirconium, may be specified), used in aircraft structural components and other high-strength applications. The 7xxx series are the strongest aluminum alloys, with yield strengths ≥ 500 MPa (≥ 73 ksi) possible.

8000 SERIES: Alloys characterizing miscellaneous compositions. The 8xxx series alloys may contain appreciable amounts of tin, lithium, and/or iron.

9000 SERIES: Reserved for future use

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