

عنوان مقاله:

A study on Heat Treatment, and Mechanical and Corrosion Properties behavior of Aluminum Bronze Alloys

محل انتشار:

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خلاصه مقاله:

Aluminum as the first industrial nonferrous metal and second metal in the world has some particular properties that lots of automobile and all of airspace manufacturers are bound to use it. Its high specific strength, formability, toughness, conductivity and corrosion resistance has made it as the first choice of various companies in different fields and also reducing the weight of structures is one of the industries target especially aerospace and automotive industries, so the usage of aluminum alloys is expanded dramatically in the industry. Aluminum alloys are used in more than 70% parts of aerospace constructions, military and weapons. Aluminum bronze as a strong and corrosion resistive alloy is a very important group in Aluminum alloys. Its strength beside the other features has made it as the best choice for sea water and saline atmosphere. The most important criteria for this group are its hardness by martensite transformation followed by aging. In this study after a review on aluminum bronze and its basic properties, the principle of martensite transformation is demonstrated and the heat treatment procedure is stated by following example. Mechanical and also corrosion properties and their effect on each other will be talked. Super elastic and the .effect of pouring circumstances on the properties are the other aspect of this study

کلمات کلیدی:

Aluminum Bronze, Martensite Heat Treatment, Mechanical and Corrosion Properties, Pouring, Abrasion

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