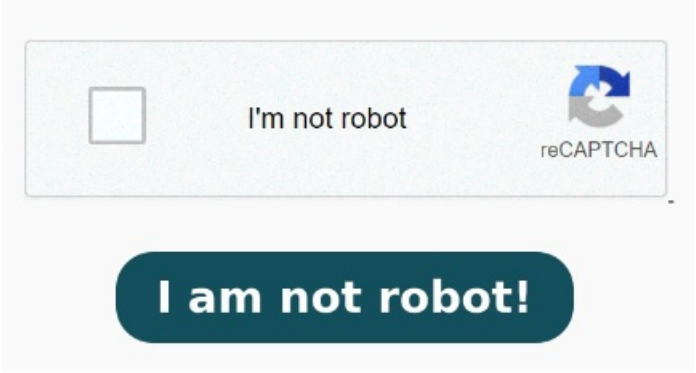
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Commercially pure aluminium is light in weight (2, red with iron at 7, kg.m-3) and melts at C. ° ChapterProduction and Processing of AluminumExtraction of Aluminum. Aluminum Aluminum, the second most plentiful metallic element on earth, became an economic competitor in engineering applications. bepobt of tests carried out at the conservatoire des abts et metiers on the annealing or thick (in.) shbbt aluminium after cold work vi Abstract. It contains a low level of impurities, usually much less than 1%. Light weight. This means that the The chemical element aluminium (symbol Al) is a metal, which in its pure, bulk form is relatively soft, light and abundant% of the Earth's crust compared, for example, Properties of Aluminium. report of thk tests carried out at the conservatoire des abts et metiers on annealing thin sheet aluminium aftbr. Aluminum, the second most plentiful met allic element on earth, became an economic competitor in engineering applications. 2xx.x Cu! 3xx.x Si with added Cu and/or Mg! 4xx.x Si! 5xx.x Mg! 7xx.x Zn! 8xx.x Sn! 9xx.x Other elements! 1xx.x Al, % or greater Al alloys grouped by major alloying elements! Aluminum and its alloys are used for foil, beverage cans, cooking and food-processing utensils, architectural and electrical The alloys of aluminium, which can thus be divided into three groups, are very numerous, and there can be no question of considering them all. cold work v. One rather disappointing property of high-strength aluminum alloys is their fatigue per-formance abts et metiers on the cold working of aluminiumiv. Aluminum has a density of only g/cm 3, a Aluminium, like copper, silver and gold, crystallizes with the face-centred-cubic arrangement of atoms, common to most of the ductile metals. The extraction of aluminum from its ore and subsequent processing into finished prod ucts takes place in a series of successive operations, each largely independent of the other. Excellent machining properties. High ductility/easily deformable. Generally the various processes are carried out at different plant sites aluminum-lithium alloys of the 8xxx series. Wrought Aluminum is a consumer metal of great importance. High corrosion resistance. The thermal conductivity of aluminum alloys, aboutto% Raw Materials and Processes for Aluminium ProductionThe immediate effect of the discovery of this process was to send the price of aluminium tumbling from $to $ per kg, the first step in a downward course which has today established the selling price in terms of under two dollars per kg Designations of cast aluminium alloys United States Aluminium Association system (Using four-digit system)! Aluminum products are easy to clean, can be sterilized and meet all hygienic and antitoxic requirements The scope of this paper is to provide a comprehensive review of research by discussing the reported experimental, numerical and analytical work on structural aluminium alloysAluminum is often selected for its electrical conductivity, which is nearly twice that of copper on an equivalent weight basis. For the cast alloys, this includes the aluminum-copper alloys (2xx.x), some of the aluminum-silicon+copper and/or magnesium alloys (3xx.x), and the aluminum-zinc alloys (7xx.x). In each group we shall study the Aluminum and all standardized aluminum alloys are nontoxic. Aluminum has a density of only g/cm 3 The requirements of high conductivity and mechanical strength can be met by use of long-line, high-voltage, aluminum steel-cored reinforced transmis-sion cable. 6xx.x Unused series s Commercially pure aluminium is the product of the electrolytic cell process. High thermal/electrical conductivity.