



Aluminum-Lithium Alloys: Chapter 4. Microstructure and Precipitate Characteristics of Aluminum-Lithium Alloys

K. Satya Prasad, N. Eswara Prasad, Amol A. Gokhale

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This chapter reviews the precipitation and precipitate phases that occur during heat treatments in multi-component Al-Li based alloys. It describes aspects related to nucleation, growth, morphology and orientation relationships of the strengthening precipitates δ' and T1, the toughening precipitate S' and the recrystallisation-inhibiting precipitate β' . Equilibrium precipitate phases such as T2, which are deleterious to the mechanical and corrosion properties of the alloys, are also described. It is shown that careful alloy chemistry control, two-step homogenization and controlled stretching prior to ageing can be employed to improve the volume fraction and distribution of the precipitate phases. All these processing aspects are necessary to achieve optimum combinations of properties for the alloys.

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