



Heat-resistant Al alloys: microstructural design and microalloying effect

H. Xue¹ , G. Yang^{1,*}, P. Zhang¹, S. H. Wu¹, G. Liu^{1,*}, and J. Sun¹

¹ State Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong University, Xi'an 710049, China

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ABSTRACT

Lightweight strategy is essential for the development of transportation vehicles and aerospace industries. As a type of lightweight material, high-strength aluminum alloys are limited to service temperatures below 200 °C due to the rapid coarsening of strengthening nano-precipitates, which cannot satisfy the increasing demands of practical applications. High-temperature applications beyond 250 °C become the bottle-neck problem of Al alloys. In this paper, we review existing literature on the improvement of high-temperature performance of aluminum alloys by stabilizing nano-precipitates. On the basis of atomic-scale microstructure regulation, several design strategies, such as interface segregation, co-precipitation, core/shell structure, and interstitial ordering, have been proposed, resulting in the development of a number of heat-resistant Al alloys for use at 300–400 °C. Moreover, the fundamental theories of solid-state phase transformation, especially precipitation aging and coarsening, are correspondingly advanced on the frontiers of science.

Introduction

Due to high specific strength and easy processing, heat-treatable aluminum alloys are widely used in transportation vehicles and aerospace industries [1–3]. The strength increment of heat-treatable aluminum alloys is derived from the formation of nano-scale precipitates from supersaturated solid solution during low aging temperature, and the size, type, orientation and number density of hardening precipitates can significantly affect mechanical performance [4–7]. It is well known that precipitates undergo coarsening

as the temperature increasing, which cause a steady deterioration in mechanical performance [8, 9]. Figure 1 illustrates the decline in strength of typical heat-treatable 7xxx and 2xxx aluminum alloys as temperature increases. The rapid decrease in performance has been observed beyond 200 °C, which has impeded the advancement of lightweight alloys at elevated temperature. Therefore, high-temperature applications beyond 250 °C become the bottle-neck problem of heat-treatable Al alloys.

The conventional approach to enhancing the high-temperature performance of aluminum alloys is to add

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Address correspondence to E-mail: yangchong@xjtu.edu.cn; lgsammer@xjtu.edu.cn

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