

Review

# A Critical Review on the Comparative Assessment of Rare-Earth and Non-Rare-Earth Alloying in Magnesium Alloys

Hafiz Muhammad Rehan Tariq <sup>1,\*</sup>, Muhammad Ishtiaq <sup>2,\*</sup>, Hyun-Hak Kang <sup>1</sup>, Umer Masood Chaudry <sup>3</sup>  
and Tea-Sung Jun <sup>1,3,\*</sup>

<sup>1</sup> Department of Mechanical Engineering, Incheon National University, Incheon 22012, Republic of Korea; 202221057@inu.ac.kr (H.M.R.T.)

<sup>2</sup> Department of Materials Engineering and Convergence Technology, Gyeongsang National University, Jinju 52828, Republic of Korea; ishtiaq145@gnu.ac.kr

<sup>3</sup> Research Institute for Engineering and Technology, Incheon National University, Incheon 22012, Republic of Korea

\* Correspondence: tjun@inu.ac.kr

<sup>†</sup> These authors contributed equally to this work.

**Abstract:** Magnesium (Mg) alloys have emerged as highly sought-after alloys in aerospace, automotive, and biomedical engineering industries due to their low density and excellent mechanical properties. The addition of alloying elements plays a critical role in improving the performance of these Mg alloys, with rare-earth (RE) elements being especially helpful in improving mechanical properties, specifically strength and ductility. However, due to the higher cost and limited availability of RE elements, researchers are trying to explore non-rare-earth (non-RE) alternatives, such as aluminum, calcium, zinc, etc. These non-RE elements offer various advantages including cost effectiveness and enhanced manufacturability, but they may not always match the performance improvements of RE elements. This review critically examines and compares the effects of RE and non-RE alloying elements on the microstructural evolution, corrosion resistance, and strengthening implications of Mg alloys. Furthermore, it explores the recent advancements in alloy development and evaluates the trade-offs between RE and non-RE alloying elements, offering key insights into the optimal approaches for enhancing the performance of Mg alloys across various applications.

**Keywords:** rare earth; non-rare earth; Mg alloys; precipitation hardening; texture weakening



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## 1. Introduction

The increasing global emphasis on stringent emission regulations, particularly in developed countries, has heightened the demand for lightweight, high-strength materials to enhance fuel efficiency and reduce environmental impact [1,2]. In response, researchers worldwide are actively pursuing the development of such materials. Among structural metals, magnesium (Mg) stands out due to its exceptionally low density, making it a prime candidate for automotive and structural applications where weight reduction is critical [3]. Despite its advantages, the widespread use of Mg is hindered by its inherently low strength [4,5]. To address this limitation, significant efforts have been directed toward developing Mg alloys with enhanced mechanical properties [6–8]. Various alloying elements are incorporated into Mg, leveraging diverse strengthening mechanisms such as grain refinement [9,10], precipitation strengthening [11,12], dispersion strengthening [13], and texture hardening [14,15]. These alloying strategies can be broadly classified into two

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