

## Magnesium Alloys Containing Rare Earth Metals Structure And Properties Advances In Metallic Alloys V 3

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Magnesium-based alloys containing rare-earth metals are important structural materials, as they combine low density with high-strength properties. This makes them particularly attractive for industry, especially in cases where the low weight of constructions is critical, as in aircraft and space apparatus construction.

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In magnesium alloys, the rare-earth (RE) elements first react with the impurities in the alloy, then with alloying elements, and finally form an intermetallic compound with magnesium. Therefore, RE elements play the key role in removing impurity and purifying the matrix in Mg alloys so as to enhance the corrosion resistance.

[Corrosion performance of magnesium \(Mg\) alloys containing ...](#)

Several Mg alloys with superior strength have been developed by incorporating precipitation hardening (such as Mg-Rare-Earth (RE)-based alloys [ 10, 11 ]), grain refinement hardening (such as equal channel angular pressing, ECAP, high pressure torsion, HPT [ 12, 13 ]) and texture hardening [ 14, 15 ].

[Development of low-alloyed and rare-earth-free magnesium ...](#)

Magnesium alloys are well-known for being the lightest structural alloys. They are made of magnesium, the lightest structural metal, mixed with other metal elements to improve the physical properties. These elements include manganese, aluminium, zinc, silicon, copper, zirconium, and rare-earth metals.

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Magnesium alloys are mixtures of magnesium with other metals, often aluminium, zinc, manganese, silicon, copper, rare earths and zirconium. Magnesium is the lightest structural metal. Magnesium alloys have a hexagonal lattice structure, which affects the fundamental properties of these alloys. Plastic deformation of the hexagonal lattice is more complicated than in cubic latticed metals like aluminium, copper and steel; therefore, magnesium alloys are typically used as cast alloys, but research

[Magnesium alloy - Wikipedia](#)

The progress in Mg alloy development has been connected for some time with the use of rare-earth metals as alloying additives. The rare-earth metals are effective in the improvement of such mechanical properties of Mg alloys like strength at elevated temperatures. At first, the rare-earth additives were used as a mixture known as " mischmetal ", which consisted mainly of cerium. Other main constituents of mischmetal were La, Nd, and Pr.

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One appealing approach of achieving this goal is via alloy composition adjustments, especially the addition of rare earth (RE) elements into Mg alloys. 14, 39-46 The addition of RE elements in Mg alloys can lead to fairly random initial crystallographic texture compared with the RE free wrought Mg alloys, which leads to improved ductility and strength at both room and elevated temperatures ...

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After rare earth additions, the tensile properties of the Be-containing alloy could be increased to be close to that of AZ91 magnesium alloy. Discover the world's research 17+ million members 135+ ...

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Magnesium Alloy Containing Rare Earth Chao-Chi Jaiin\*1 and Chun-Hao Koo\*2 Department of Materials Science and Engineering, National Taiwan University, No. 1, Sec. 4, Roosevelt Road, Taipei, Taiwan 106, Republic of China E cts of microstructures on the creep and corrosion properties were investigated in the Mg-8Al alloys with addition of the ...

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The usual addition of Rare Earths (RE) in engineering applications is performed as mis chmetal or didymium, whereof the mischmetal contains 50 wt% cerium and the rest princ pally neodymium and lanthanum. REs aim to increase the strength of MA and to 2 Magnesium Alloys

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Sep 06, 2020 magnesium alloys containing rare earth metals structure and properties advances in metallic alloys v 3 Posted By Enid BlytonLtd TEXT ID 31024fb2 Online PDF Ebook Epub Library Amazoncom Magnesium Alloys Containing Rare Earth Metals