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Magnesium alloys have been found suitable for orthopedic implants [1-4]. However, the main challenge of this material is its degradation rate in vivo [5]. The corrosion of magnesium alloy is due to the electrochemical reaction between the material and body's ionized fluid [6].

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Corrosion of Magnesium and Magnesium Alloys

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Magnesium alloys containing small amounts of aluminum, manganese, zinc, zirconium, etc., have strength equaling that of mild steels. They can be rolled into plate, shapes, and strip. Magnesium can be cast, forged, fabricated, and machined. As a structural metal it is used in aircraft. It is used by the materials-moving industry for parts of ...

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Magnesium alloys are mixtures of magnesium with other metals (called an alloy), often aluminum, 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.

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