

عنوان مقاله:

THE DEFORMATION BEHAVIOR OF AZ₃₁ MAGNESIUM ALLOY AT ELEVATED TEMPERATURES

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خلاصه مقاله:

AZ₃₁ magnesium alloy is considered as a promising alloy in various applications and industries. Furthermore, to design a proper hot working process (rolling, forging and extrusion), the assessment of hot working behaviour of the alloy is necessary. Accordingly, the hot deformation behaviour of AZ₃₁ alloy was studied through hot compression testing method. This was carried out in a wide range of temperature (523K to 783K) and strain rates. The obtained true stress-true strain curves and final microstructures were examined and a partial melting was realized at 740K. It was concluded that the presence of liquid did change the deformation mechanisms thereby affecting the flow behaviour.

کلمات کلیدی:

AZ₃₁ alloy, Deformation, Dynamic recrystallization

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