

عنوان مقاله:

Simulation of the deep drawing process on AZ91 magnesium using finite element method

محل انتشار:

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خلاصه مقاله:

In this paper, the location of 0.5 mm thick AZ91 magnesium sheet rupture is investigated in a deep drawing process using finite element simulation diagram. Also, the effect of two important input parameters, punch edge radius and matrix edge radius on the deformed sheet rupture is investigated. Comparison of the results of the prediction of the location of the steel sheet rupture in deep circular cross section elongation investigated in this paper shows that the injury initiation area in the deformed parts is in good agreement. The results show well that the radius of the punch has a much greater impact on the shape of the specimen rupture than the radius of the matrix

کلمات کلیدی:

Deep Tensile, Tensile Strength, AZ91 magnesium sheet, FLD

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