

## عنوان مقاله:

An Experimental Investigation on Forming Limit Diagram of Two-Layer Metallic Sheets

## محل انتشار:

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## خلاصه مقاله:

Generally, with different material combinations, two layer metallic sheets can have advantageous characteristics such as good thermal conductivity, anti-corrosion properties, wear resistance, surface quality, and so forth. Thus, they can be used in many applications, for instance, in electronics, the maritime industry, and the automobile industry. Therefore, understanding the forming limit behavior of a two-layer metallic sheet has an essential role in the design of sheet metal forming processes. In this paper, the formability of two-layer (copper/aluminum) sheets was investigated through experimental tests. Forming limit diagram (FLD) is a suitable method to determine the formability of metallic sheets in sheet metal forming operations. In this research the forming limit diagram of two-layer metallic sheets was obtained, with aluminum inner layer which was in contact with the punch and copper outer layer which was in contact with the die.

## کلمات کلیدی:

Forming limit diagram, Two-layer metallic sheet, Experimental study

## لینک ثابت مقاله در پایگاه سیویلیکا:

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