

CONTRIBUTIONS REGARDING THE STUDY OF THE A5 STEEL SHEET'S ANISOTROPY

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Abstract

Mechanical characteristics of the sheet steel are different on the rolling direction towards other directions, which are not parallel with this one. These differences are indicated by the anisotropy factor. Anisotropy favors the appearance of ears at the drawing of flangeless cylindrical parts these ones being considered as a manufacturing default of the parts. . In this work there are presented experimental determinations regarding the A5 STAS 10 318-80 steel sheets' anisotropy and its relationship with the size of the ears, which appear during the drawing process of flangeless cylindrical parts. Determinations regarding the A5 steel sheets' anisotropy aimed at the attainment of necessary data for the simulation of the drawing process.

Keywords

Sheet, steel, anisotropy, drawing, ears.