PNEUMORMING THE ELEMENTS OF CELLULAR SHEET CONSTRUCTIONS OF SQUARE CROSS SECTION FROM AN ANISOTROPIC MATERIAL

LARIN Sergey, YAKOVLEV Sergey, PLATONOV Valeriy

Tula State University, Tula, Russian Federation

Abstract

Process principles forming blanks pressurized gas and diffusion bonding may be employed in the manufacture of multilayer mesh sheet structures.

The sheet material to be stamped usually is anisotropic mechanical-cal properties due to the brand of the material, technological modes of its receipt, Coto paradise contributes to sustainable flow of technological processes of metal forming.

The results of theoretical and experimental studies of the process of isothermal pnevmoformovki cellular elements multilayer sheet structures of the mate-rial anisotropic in creep mode. A process of forming is carried out in two steps: the shell and deforming the free constraint in forming angular deformation of structural elements.

Keywords: Pneumorming, multi-layer sheet structure, anisotropy, stress, strain, force, defectiveness

Author did not supply full text of the paper/poster.