

Anisotropy of parts produced using DMLS technology

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Abstract

DMLS technology is among the most progressive technologies falling into the category of additive manufacturing in Rapid Prototyping. Problems of a printed parts also unfortunately must deal with the instability of the mechanical and geometrical material characteristics depending on the position or the printing method. With this in mind, it is necessary to adapt the design and subsequently ensure the correct position of the model (product) in the working area of the machine. The following article describes the attributes of the material 17-4 PH (PH CL 92) - martensitic, precipitation-hardening stainless steel, which has great potential use in aerospace, energy, or in the production of molds.

Keywords: DMLS; Rapid Prototyping; anisotropy; 17-4 PH

The full text of the paper is not available due to ongoing research. Please contact author for detail information.

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