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论文

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### Ni基金属粉末激光快速制造的研究

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### STUDY ON LASER SINTERING OF NI-BASED ALLOY POWDERS

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摘要

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**摘要** 采用激光选区烧结的方法,对 Ni基金属混合铜粉末进行了一系列激光烧结试验。从烧结模型入手,分析了烧结过程中出现的现象,讨论了工艺参数对金属粉末烧结成形的影响,初步探索了金属粉末直接烧结成形的基本机理,为金属粉末的激光快速成形制造提供了依据。

**关键词:** 激光选区烧结 金属粉末 工艺参数 金属零件

**Abstract:** A series of experiments were carried out with Selective Laser Sintering (SLS) for the mixture of Ni based alloys powders and copper powders. First, a sintering model was established, then according to the phenomena of the sintering process, the effect of the technological parameter upon metal forming was analyzed and discussed in detail, and finally the mechanism of the laser sintering metallic powders was explored preliminarily. All those above lay the foundation for the forming metal spare parts by laser sintering metallic powders.

**Keywords:** selectiv e laser sinter ing metallic powder process paramet ers met allic part s

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