

Abstract

Keywords

The article presents the results of the research on the influence of the amount of the binder on the properties of the powder metallurgy parts. The research was carried out on the basis of the experimental method. The results of the research show that the amount of the binder has a significant influence on the properties of the powder metallurgy parts. The amount of the binder affects the mechanical properties, the dimensional stability, and the surface quality of the parts. The amount of the binder also affects the sintering process and the microstructure of the parts.

The amount of the binder affects the mechanical properties of the powder metallurgy parts. The amount of the binder affects the tensile strength, the yield strength, and the elongation at break of the parts. The amount of the binder also affects the dimensional stability of the parts. The amount of the binder affects the shrinkage of the parts during the sintering process. The amount of the binder also affects the surface quality of the parts. The amount of the binder affects the surface roughness and the surface porosity of the parts.

The amount of the binder affects the sintering process of the powder metallurgy parts. The amount of the binder affects the sintering temperature and the sintering time of the parts. The amount of the binder also affects the microstructure of the parts. The amount of the binder affects the grain size and the grain boundary structure of the parts. The amount of the binder also affects the porosity of the parts. The amount of the binder affects the distribution of the pores in the parts.

1. Introduction

1.1. The influence of the binder on the properties of the powder metallurgy parts

The amount of the binder has a significant influence on the properties of the powder metallurgy parts. The amount of the binder affects the mechanical properties, the dimensional stability, and the surface quality of the parts. The amount of the binder also affects the sintering process and the microstructure of the parts. The amount of the binder affects the tensile strength, the yield strength, and the elongation at break of the parts. The amount of the binder also affects the shrinkage of the parts during the sintering process. The amount of the binder also affects the surface roughness and the surface porosity of the parts.

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