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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 41883-2022

**Additive manufacturing tantalum and tantalum alloy by powder
bed fusion**

粉末床熔融增材制造钽及钽合金

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1 Scope

This document specifies the technical requirements, test methods, inspection rules, marking, packaging, transportation, Storage, accompanying documents and order form content.

This document applies to tantalum and tantalum alloys prepared by powder bed fusion additive manufacturing.

2 Normative references

- GB/T 228.1
- GB/T 3500
- GB/T 3850
- GB/T 5677
- GB/T 15076
- GB/T 18851.1
- GB/T 35351
- GB/T 38975

3 Terms and Definitions

Terms and definitions defined in GB/T 3500 and GB/T 35351 apply to this document.

4.1 Raw materials

The raw material of the product is tantalum and tantalum alloy powder, and its chemical

composition, particle size distribution, bulk density, tap density and fluidity should meet the requirements. According to GB/T 38975, the quality is guaranteed by the supplier.

4.2 Supply Status

The product should be cleaned and surface treated. When the buyer has special requirements for the supply status of the final formed parts, it should be determined through negotiation between the supplier and the buyer.

order, and indicate in the order form.

4.3 Chemical composition

The chemical composition of the product should meet the requirements of Table 1.