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ICS 49.025
CCS V10

HB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HB 8745-2023

Laser selective melting additive manufacturing of aerospace titanium alloy parts, heat treatment and hot isostatic pressing of parts

航空钛合金制件激光选区熔化增材制造 制件热处理及热等静压

(English Translation)

Issued on: December 20, 2023 **Implemented on: July 1, 2024**

Issued by: Ministry of Industry and Information Technology of the People's Republic of China

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1 Foreword

HB 8745-2023 was issued by Ministry of Industry and Information Technology of the People's Republic of China on 20 December 2023 and has been in force since 1 July 2024.

The HB prefix, without a suffix, marks a mandatory standard: within its scope, compliance is required.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the equipment and media, process and requirements, inspection, quality control, transportation and storage requirements for laser selective melting of aerospace titanium alloy parts for heat treatment and hot isostatic pressing. This standard applies to the heat treatment and hot isostatic pressing of aerospace titanium alloy parts manufactured by laser selective melting additive manufacturing. The heat treatment of titanium alloy parts for other uses can be used as a reference.

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HB 8745-2023 falls under ICS 49.025, in the field of aircraft and space vehicle engineering.

This catalogue holds 64 other HB standards in that field.

In this catalogue, HB standards carry edition years from 2012 to 2025.

3 About this standard

Sector: Aviation Industry Standard

Issued by: Ministry of Industry and Information Technology of the People's Republic of China

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB/T 34520.8-2021 - Test methods of continuous silicon carbide fibers-Part 8: Oxygen content

HB 5261-2023 - K-R curve test method for metallic materials

HB 8746-2023 - Process control requirements for laser selective melting additive manufacturing of aerospace titanium alloy parts

5 Classification and status

International classification (ICS): 49.025

Chinese Standard Classification (CCS): V 10

Prefix HB: mandatory standard.

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