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ICS 77.120.50
CCS H21

YS

NONFERROUS METALS INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YS/T 1839-2026

Titanium alloys - Determination of beta transus temperature - Thermal analysis method

钛合金β 相 转 变 温度 测定热分析法

(English Translation)

Issued on: April 15, 2026 **Implemented on: November 1, 2026**

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Foreword

YS/T 1839-2026 is a recommended industry standard of the People's Republic of China in the Nonferrous Metals sector, approved and issued by the Ministry of Industry and Information Technology on 15 April 2026, with effect from 1 November 2026.

Classification: ICS 77.120.50; CCS H21.

1 Scope

YS/T 1839-2026 describes a method for determining the beta transus temperature of titanium alloys by thermal analysis. It applies to the determination of the beta transus temperature of alpha titanium alloys, alpha-beta titanium alloys and beta titanium alloys. The beta transus is the temperature above which a titanium alloy becomes fully beta in structure, and it is an important reference for planning hot working and heat treatment.

Titanium alloy producers, forging and heat-treatment shops, aerospace and other users of titanium products, and testing laboratories can use it when this characteristic temperature has to be determined and reported. It is a voluntary standard (code with /T), issued by the Ministry of Industry and Information Technology on 15 April 2026 and effective from 1 November 2026. It is a new standard.

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