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ICS 77.040.10
CCS H22

YS

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

YS/T 1872-2026

Test method for residual stress in titanium alloys - X-ray Debye ring method

钛合金残余应力检测方法X 射线德拜环法

(English Translation)

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

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Foreword

YS/T 1872-2026 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 77.040.10; CCS H22.

1 Scope

YS/T 1872-2026 describes a method for detecting residual stress in titanium alloys by the X-ray Debye ring method. It applies to residual stress detection in isotropic titanium alloy materials with fine grains and no texture, which give continuous Debye rings when irradiated by X-rays of a specific wavelength.

It is used by titanium alloy producers and component manufacturers, by aerospace and other industrial users that control residual stress, and by materials testing laboratories. It is a voluntary standard, as the /T in the code shows. It was approved by the Ministry of Industry and Information Technology, issued on 15 April 2026 and takes effect on 1 November 2026. It is a new standard.

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