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ICS 77.160
CCS H21

YS

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

YS/T 1858-2026

Cemented carbides - Determination of hard coating thickness - X-ray fluorescence spectrometry

硬质合金 硬质涂层厚度的测定 X 射线荧光光谱法

(English Translation)

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

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Foreword

YS/T 1858-2026 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 77.160; CCS H21.

1 Scope

The document describes a method for determining the thickness of hard coatings on cemented carbides by X-ray fluorescence spectrometry. It applies to hard coatings whose metal elements differ from those of the substrate, over a thickness range from 0.10 μm to 10.00 μm. The method relies on the characteristic X-rays emitted by the sample under irradiation, and the document describes how this is used to determine the thickness of the coating layer.

Coated carbide tool makers, coating service providers, laboratories and buyers of coated tools can use it to measure and report coating thickness. 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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