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ICS 77.160
CCS H22

YS

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

YS/T 1837-2026

Hardmetal coatings - High temperature wear test - Ball-on-disc method

硬质合金涂层 高温磨损试验 球盘法

(English Translation)

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

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Foreword

YS/T 1837-2026 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 H22.

1 Scope

The document describes a test method for determining the high-temperature wear performance of coatings by the ball-on-disc method. It applies to coatings on substrates of cemented carbide (hardmetal) and other hard materials, and covers the determination of the wear rate and the friction coefficient of such coatings at temperatures from 100 °C to 800 °C.

It is used by test laboratories, coating producers, tool and wear-part manufacturers, and research institutes that need comparable wear data at elevated temperature. 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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