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ICS 77.120.30
CCS H62

YS

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

YS/T 1870-2026

Test method for residual stress in copper and copper alloy plates, strips and foils - X-ray diffraction method

铜及铜合金板带箔材残余应力检测方法 X 射线衍射法

(English Translation)

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Foreword

YS/T 1870-2026 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 77.120.30; CCS H62.

1 Scope

YS/T 1870-2026 describes the quantitative detection of residual stress in copper and copper alloy plates, strips and foils by X-ray diffraction. It covers the principle, specimens, apparatus, measurement procedure, data processing, measurement uncertainty and test report. It applies to copper and copper alloy plates, strips and foils with a thickness of 0.012 mm to 0.8 mm and a grain size of 10 μm to 100 μm.

It is used by copper strip and foil producers, by electronics and other manufacturers who process these materials, and by testing laboratories. It is voluntary, 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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