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YS

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

YS/T 1869-2026

Failure analysis of aluminium alloy products - Scanning electron microscopy method

铝合金产品失效分析 扫描电镜法

(English Translation)

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Foreword

YS/T 1869-2026 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 77.120.99; CCS H12.

1 Scope

The document describes a method of failure analysis of aluminium alloy products using a scanning electron microscope. It applies to finding the cause of failure of aluminium alloy products that occurs during production, testing or service and arises from abnormal structure, cracking, corrosion, wear, surface damage and changes in appearance.

It is used by failure analysis and materials testing laboratories, by aluminium alloy producers and fabricators investigating defective products, and by users of aluminium components who need to establish why a part failed. 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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