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ICS 77.120
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YS

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

YS/T 1855-2026

Technical specification for digital twin of intelligent smelting plants in the nonferrous metals industry

有色金属行业智能冶炼工厂数字孪生技术规范

(English Translation)

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Foreword

YS/T 1855-2026 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; CCS H60.

1 Scope

YS/T 1855-2026 sets out the general requirements, model requirements, business function requirements and system security requirements for the digital twin of an intelligent smelting plant in the nonferrous metals industry. It applies to the design, modelling, development, implementation and evaluation of intelligent plant digital twin systems in existing, new and rebuilt or extended nonferrous metal smelting plants. A digital twin is a virtual model of the physical plant that is kept in step with it, and the requirements here concern the models, the business functions they support and the security of the system.

Smelting enterprises, system designers and software developers, integrators and evaluating bodies can use it when planning and assessing such systems. 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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