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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 118.17-2026

Replacing YS/T 118.17-2012

Methods of determination and calculation of heat balance in metallurgical furnaces for heavy non-ferrous metals (Nickel flash smelting furnace)

重有色冶金炉窑热平衡测定与计算方法（镍闪速熔炼炉）

(English Translation)

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Foreword

YS/T 118.17-2026 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 July 2026, with effect from 1 February 2027.

This edition replaces YS/T 118.17-2012.

Classification: ICS 77.120; CCS H01.

1 Scope

This part of the series on heat balance in metallurgical furnaces for heavy non-ferrous metals covers nickel flash smelting furnaces. It specifies the basis for heat balance determination and calculation, an overview of the equipment and production process flow, the conditions for heat balance determination, the items and methods of determination, the material balance, the heat balance, the main energy consumption indicators, and the analysis of results with suggestions for improvement. It applies to heat balance determination and calculation for nickel flash smelting furnaces.

Smelters, energy auditors, furnace designers, test organisations and consultants can use it to carry out and compare furnace heat balance tests. YS/T 118.17-2026 is a voluntary standard (code with /T). It was approved and issued by the Ministry of Industry and Information Technology on 15 July 2026 and takes effect on 1 February 2027. It replaces YS/T 118.17-2012.

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