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ICS 77.040
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YS

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

YS/T 1864-2026

Determination of surface metal content of granular silicon produced by the fluidized bed method - Acid leaching - Inductively coupled plasma mass spectrometry

流化床法颗粒硅表面金属含量的测定 酸浸取-电感耦合等离子体质谱法

(English Translation)

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Foreword

YS/T 1864-2026 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 77.040; CCS H17.

1 Scope

The document describes a method that uses an inductively coupled plasma mass spectrometer (ICP-MS) to determine the content of metal impurity elements on the surface of granular silicon made by the fluidized bed method, after acid leaching. It applies to impurity elements such as iron, chromium, nickel, copper, sodium, magnesium, aluminium, potassium, calcium, zinc, titanium, molybdenum, tungsten, cobalt and manganese, each over a measuring range of 0.05 ng/g to 1000 ng/g.

It is used by granular silicon producers, by their customers in the semiconductor and photovoltaic industries, and by analytical 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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