

ICS 77.160
CCS H16

YS

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

YS/T 539.10-2026

**Methods for chemical analysis of nickel base alloy powder -
Part 10: Determination of trace impurity elements content -
Inductively coupled plasma mass spectrometry**

镍基合金粉化学分析方法 第10部分：痕量杂质元素含量的测定 电感耦合等离子
体质谱法

(English Translation)

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Foreword

YS/T 539.10-2026 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.

Classification: ICS 77.160; CCS H16.

1 Scope

Part 10 of the series on chemical analysis of nickel base alloy powder describes the determination of trace impurity elements by inductively coupled plasma mass spectrometry. It covers the content of boron, magnesium, zinc, gallium, arsenic, selenium, silver, cadmium, tin, antimony, tellurium, platinum, gold, thallium, lead and bismuth in nickel base alloy powder.

It is used by powder producers, by additive manufacturing and thermal spray users who buy nickel base alloy powder, 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 July 2026 and takes effect on 1 February 2027. It is a new standard.