

ICS 77.120.99

CCS H 15



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 43607-2023

Method for analysis of palladium ingots-Determination of silver, aluminum, gold, bismuth, chromium, copper, iron, iridium, magnesium, manganese, nickel, lead, platinum, rhodium, ruthenium, silicon, tin and zinc contents-Spark discharge atomic emission spectrometry

钯锭分析方法 银、铝、金、铋、铬、铜、铁、铈、镁、锰、镍、铅、铂、铑、钌、硅、锡、锌含量测定 火花放电原子发射光谱法

Issued on: December 28, 2023

Implemented on: July 1, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

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This document is under the jurisdiction of the National Nonferrous Metals Standardization Technical Committee (SAC/TC243):

This document was drafted by: Nanjing Product Quality Supervision and Inspection Institute (Nanjing Institute of Quality Development and Advanced Technology Application), Jiangsu Beikang Metal Recycling Technology Co., Ltd., Shenzhen Ningshen Inspection and Testing Technology Co., Ltd., National Standard (Beijing) Inspection and Certification Co., Ltd., Fujian Zijin Mining and Metallurgy Testing Technology Co., Ltd: Xiamen Branch, Shenzhen Zhongjin Lingnan Nonferrous Metals Co., Ltd: Shaoguan Smelting Plant, Beikang Testing Technology Co., Ltd., Shenzhen Yuexin Precious Metals Co., Ltd:

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Palladium ingot analysis method Silver, aluminum, gold, bismuth, chromium, copper, iron, iridium, magnesium, manganese, Determination of nickel, lead, platinum, rhodium, ruthenium, silicon, tin and zinc content spark discharge atomic emission spectrometry

1 Scope

This document describes the spark discharge content of silver, aluminum, gold, bismuth, chromium, copper, iron, iridium, magnesium, manganese, nickel, lead, platinum, rhodium, ruthenium, silicon, tin and zinc in palladium ingots:

Electron atomic emission spectroscopy analysis method:

This document is applicable to the determination of impurity element content of palladium ingots with a palladium content of 99.90%~99.99%: The measurement range of each element is shown in Table 1:

Table 1 Elements and measurement range element name Measuring range (mass fraction)
 element name Measuring range (mass fraction) Silver 0.0004~0.10 Manganese
 0.0001~0.010 Aluminum 0.0002~0.060 Nickel 0.0003~0.030 Gold 0.0003~0.050 Lead
 0.0002~0.020 Bismuth 0.0002~0.0050 Platinum 0.0010~0.10 Chromium 0.0001~0.025
 Rhodium 0.0001~0.10 Copper 0.0001~0.030 Ruthenium 0.0002~0.10 Iron 0.0003~0.10
 Silicon 0.0002~0.040 Iridium 0.0007~0.10 Tin 0.0003~0.020 Magnesium 0.0003~0.030
 Zinc 0.0004~0.010 Note: The specified measurement range represents the range studied
 by the precision test: It may be applicable beyond this range, but the laboratory needs to
 conduct tests beyond the range: Verify:

2 Normative reference documents

GB/T 6379

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