

SINO-PLATINUM METALS CO., LTD.

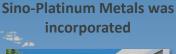
Kunming . Singapore . Shanghai . Yongxing . Yimen

贵金属集团

Company History



National Central Institute was established in Kunming



Completed the integration of the industrial chain of the Institute

Celebrated 80th Anniversary









1938

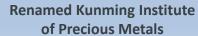
1962

1999 2003 2012

2016

2018







Sino-Platinum Metals was listed in Shanghai (Stock code 600459)



Sino-Precious Metals Holding was incorporated



Precious Metals International (Singapore) Pte Ltd was incorporated

Group Structure



Managed by SPM without share ownership

Sino-Platinum Metals Co., Ltd.

Kunming Institute of Precious Metals Precious Metals International (Singapore) Pte. Ltd. Sino-Platinum Resources Yimen Co., Ltd.

Sino-Platinum Metals Shanghai Co., Ltd.

Other subsidiaries:

Sino-Platinum International Trading Co., Ltd.
Kunming Precious Materials & Technology Co., Ltd.
Yong Xing Sino-Platinum Resources Co., Ltd.
Kunming Sino-Platinum Catalyst Co., Ltd.
Sino-Platinum Zhongxi (Shanghai) New Material Technology Co., Ltd.
Sino-Platinum Metals Chemical (Yunnan) Co., Ltd.



Precious Metals Material Products

> Automobile Catalyst

- **✓** Three-way catalysts for gasoline engines
- ✓ Diesel catalysts (Diesel oxidation catalyst, Selective catalytic reduction, Catalytic Diesel Particulate Filter and Particulate Oxidation Catalyst)
- ✓ Motor catalysts







Sino-Platinum Metals

Precious Metals Material Products

- **▶** Precious Metals Compounds
- ✓ Industrial catalysts (Palladium and Platinum compounds)

Products' name	Molecular Formula	Precious Metals	Colors
Palladium Chloride	PdCl2	≥59.5%	Brown red
Palladium Nitrate	Pd(NO3)2.2H2O	100g/l	Brown
Platinum Nitrate	Pt(NO3)2	20g/l	Light yellow
Chloroplatinic Acid	H2PtCl6.6H2O	≥37.0%	Orange
Rhodium Nitrate	Rh(NO3)3	100g/l	Yellow
Rhodium chloride hydrate	RhCl3.nH2O	≥38.0%	Dark red
Ruthenium chloride hydrate	RuCl3.nH2O	≥37.0%	Brownish black
Chloroiridic Acid	H2IrCl6.6H2O	≥35.0%	Brown

- ✓ Other precious metals compounds used in chlor-alkali industry
- √ Homogeneous and heterogeneous catalysts used in medical industry







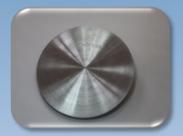




Precious Metals Material Products

- > Alloy Material of Precious Metals
- ✓ Precious metals and alloy composite strip products
 - Micromotor Commutator Materials
 - Making and Breaking Contact Materials
 - Micromotor Brush Materials
 - Composite Soldering Materials of Precious Metals
- ✓ Precious metals thermocouple
- ✓ Precious metals alloy catalytic gauzes
- ✓ Precious metals alloy materials
 - Precision resistance of alloy materials
 - Elastic Materials
 - Alloy material for resistance strain gauge
 - Flexible Circuit Conductor
 - Electric brush and conducting ring material
- ✓ Precious metals brazing materials for vacuum devices









Precious Metals Material Products

- Precious Metals Pastes for Electronic Components
- ✓ Conductive adhesive
- ✓ Platinum pastes for electrode sensors
- ✓ Pastes for thick film circuits
- ✓ Pastes for chip devices
- ✓ Polymer silver pastes
- ✓ Silver conductive pastes for membrane switch
- ✓ Pastes for solar cell
- Precious metals powders (Gold, Silver, Platinum, Palladium and Ruthenium Dioxide)







Precious Metals Scraps and Spent Catalysts Recycling and Refining



We offer exclusive recycling and refining services with a processing capacity of 5,000mt scraps and spent catalysts, that is equivalent to 12mt PGMs, 5mt Gold, and 800mt Silver each year





