



## 金礦 Gold Ore 產品介紹



### • Gold Ore Product Presentation

#### 產品介紹

The main source is gold-bearing quartz veins caused by hydrothermal fluids, usually associated with quartz and sulfides; it is also found in unconsolidated sand deposits and sandstones, and granular or massive alluvial placer gold can also be found in river beds. It has high specific gravity, low hardness, strong ductility, does not oxidize in the air, and does not lose its luster easily. , the main source is gold-bearing quartz veins caused by hydrothermal fluids, usually associated with quartz and



sulfides; it can also be found in unconsolidated sand deposits and sandstones, and can also Alluvial placer gold is found in river beds in granular or lumpy form. , granular, massive, flaky, dendritic.

主要來源為熱液作用之含金石英脈，通常與石英及硫化物伴生；亦見於未固結之砂積礦床、砂岩中，也可在河床找到顆粒狀或塊狀沖積砂金。比重高、硬度低，延展性強，在空氣中不氧化、不易失去光澤。主要來源為熱液作用之含金石英脈，通常與石英及硫化物伴生；亦見於未固結之砂積礦床、砂岩中，也可在河床找到顆粒狀或塊狀沖積砂金。顆粒狀、塊狀、片狀、樹枝狀

## · Commodity Approach

### 產品用途

#### 1. Application in the electronics industry

Because gold has excellent stability and good electrical and thermal conductivity, gold is increasingly used in the electronics industry. With the development of aerospace technology, more and more radio electronic components require high stability, such as coatings for advanced vacuum tubes, special-purpose power connectors, brushed wires used in special precision electronic instruments, gold-plated high-frequency conductors,



and high-temperature welding. Use gold alloy. Gold-coated integrated circuits are used in computers, radios, televisions, cassette players, etc.

According to reports, the world's electronics industry demand in 1987 was 123 tons, accounting for 7.7% of the total demand.

在電子工業中的用途

由於金具有優異的穩定性，良好的導電導熱性能，因此使金在電子工業上的用途愈來愈廣泛。宇航技術的發展，要求穩定程度很高的無線電電子元件愈來愈多，如高級真空管的塗料，特種用途的電力接頭，特種精密電子儀器中用的拉絲導線，電鍍金的高頻導體以及高溫焊接用金合金。在計算機、收音機、電視機、收錄機等方面用的塗金積體電路等。據報導，1987年全世界電子工業需求量 123t，占總需求量的 7.7%。

## 2. Application in the chemical industry

In the chemical industry, it also has unique uses, such as materials used in nuclear chemical plants, alloy spinnerets used in man-made fiber factories, etc.

在化學工業中的用途



在化學工業中，也有獨特的用途，如核化工廠用的材料，人造纖維類工廠用的合金噴絲頭等。

### 3. Application in the aerospace industry

In the aerospace industry, the uses of gold are also being developed and explored. Gold-coated infrared devices and heat reflectors are used in aircraft and other space transportation vehicles, gold-coated heat shields or heat shields for jet engines and rocket engines, and heat shields coated with thin layers of gold for aircraft, cars, ships, and other vehicles glass, etc.

在宇航工業中的套用

在航天工業中，金的用途也在發展與開拓之中。飛機和其他空間運輸工具中用的鍍金紅外裝置和熱反射器，噴氣發動機和火箭發動機用塗金防熱罩或熱遮護板以及飛機、汽車、輪船等交通工具塗有薄層金的熱擋玻璃等。

### 4. Application in traditional industries

In traditional industries such as dental implants, photography, and pen making, gold still has a certain amount of consumption. The appl



ication of gold in science and technology is under continuous development. Ryozo Akihirozo of the Atomic Energy Research Institute of a Japanese university discovered that the accumulation of gold crystals can form a superconducting film. It is expected that with the development of science and the emergence of new technologies, the application fields of gold will continue to expand.

在傳統工業中套用

鑲牙業、照相和制筆等傳統工業中，黃金的套用仍具有一定的消耗量。金在科學技術上的套用，正處在不斷開發中。日本某大學原子能研究所秋洪良三發現金晶體堆積，可構成超導薄膜。預計，隨著科學的發展和新技術不斷出現，黃金的套用領域將不斷擴大。

## • Leading Exporter

### 主要出口國

China is the world's largest gold producer. China mined 330 tons of gold in 2022, almost the same as the 329 tons in 2021. China has once again become the world's largest gold producer and has maintained it for more than 10 years.



Followed by Australia and Russia (320 tons), Canada (220 tons), the United States (170 tons), Mexico and Kazakhstan (120 tons), South Africa (110 tons), Peru and Uzbekistan (100 tons).

中國是全球最大的產金國。中國 2022 年開採了 330 噸的黃金，跟 2021 年的 329 噸幾乎持平，再次成為全球第一大黃金生產國並且已經維持超過 10 年。

其後有澳大利亞和俄羅斯(320 噸)、加拿大(220 噸)、美國(170 噸)、墨西哥和哈薩克斯坦(120 噸)、南非(110 噸)、秘魯和烏茲別克斯坦(100 噸)