俄乌冲突对钨制品市场与价格的影响

IMPACTS OF RUSSIA-UKRAINE CONFLICT ON TUNGSTEN MARKET & PRICE

DR. HANNS
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DR. HANNS
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XIAMEN CHINA, MAR.24,2022
www.ctia.com.cm
ceo@tungsten.com.cn

作者简介

厦门中钨在线科技有限公司，简称“中钨在线”，是中国第一家钨、钼、稀土行业的电子商务公司，1997 年 9 月以我国第一家顶级钨制品网站 www.chinatungsten.com 为基础在厦门设立。中钨在线以其在钨钼制品领域几十年积累的信息数据和专业经验为基础的设计、制造，卓越的商业信誉和优质服务闻名全球业界，使其成为钨钼稀土，特别是钨化学品、金属钨、硬质合金、高比重合金、钼及钼合金领域的最佳综合应用解决方案提供商。

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BRIEF INTRODUCTION TO THE AUTHOR

As the 1st E-commerce company of Tungsten (W), Molybdenum (Mo), Rare Earth (RE) in China, China Tungsten Online Manu. & Sales (CTOMS) was founded in 1997 based on China's the 1st and top tungsten website www.chinatungsten.com. As its specialized design, professional manufacturing, excellent service and powerful information database, CTOMS is not only the most authoritative information source of Chinese and English information of W Mo and RE products globally, but also the best comprehensive application solution provider of W, Mo and RE, both chemical materials and machined products, such as tungsten oxide, metal, cemented carbide and heavy alloys.

CTOMS has been created more than 1 million web pages and WeChat information message of W, Mo and RE news, price and market research, analysis. The web news.chinatungsten.com, www.ctia.com.cn are the world's top index websites of tungsten which have received 1 billion visits from 1997.

The major business of CTOMS is to complete product design, R & D with customers and provide customers with processing and integration services. In the past 2 decades, it has provided more than 100,000 different types of W, Mo & RE products to more than 10,000 customers all over the world. Years experience and technology accumulation have laid a foundation for promoting the flexible and intelligent manufacturing of customized products.

The professional research articles and reports of CTOMS are written by Dr. Hanns, Miss Sunny Zheng, professional analyst and its marketing team. Dr. Hanns is an expert of the main market and technical research of CTOMS has been engaged in e-commerce and international trade of tungsten and molybdenum products, production and manufacturing of cemented carbide and high specific gravity tungsten alloy since the early 1990s. He is a well-known expert in e-commerce, tungsten product design, processing and Market Research of tungsten and molybdenum products in the industry with more than 30 years of experience. Miss Sunny has been committed to the research of tungsten market, creating and promoting CTOMS social media form many years. She has strong professional delicacy and sensitivity to tungsten products market and price.

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IMPACTS OF RUSSIA-UKRAINE CONFLICT ON TUNGSTEN MARKET & PRICE

PART VII OF X

Thirty Years Russian "Tungsten Bullion" Scam

When this article sent out the previous part about the conflict between Russia and Ukraine and the futures risk of tungsten products in China, the author browsed the news website, Found the news: "the London Metal Exchange (LME) said on Tuesday that it does not intend to prohibit the delivery of metals from Russian producers in its system despite the appeal of some members... About 10% of the world's nickel, 6% of aluminum and about 3.5% of the world's copper supply come from Russia. At a time of rising global inflation, the ban on Russian metals may lead to shortages and push prices up further." Seeing such content, we are not only glad that we are in a peaceful and safe environment, but also worried about how long Rusal and Rusal can last in LME. It's hard to say whether one day members will ban Russian aluminum, nickel and copper if they strongly appeal!

1. "Tungsten Gold" and "Tungsten Gold Bullion" Fraud for Decades



Real Gold Bars

"Thirty years of Russian" tungsten bullion "scam", written about today's topic, seems to

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really rub the heat of the Russian Ukrainian conflict, but it is not so. In the past few decades, there have been many so-called "tungsten gold" fraud cases in China. China Tungsten online has also written articles on the truth of "tungsten gold" and related fraud for several times, and actively publicized it by using the popularity and high traffic of the "China tungsten industry" website. The popularity of the so-called "Russia tungsten gold" is not low at all. Almost all fraud cases involving the so-called "tungsten bullion" are labeled as produced in Russia or from Russia, which is really more unjust than anyone!

China Tungsten Online has been engaged in the production and processing of tungsten products and domestic and foreign trade since 1990s. Especially after 2000, it has been engaged in the design, production and fine customization processing of tungsten alloy products for a long time. Therefore, it has a detailed and profound understanding of tungsten products. Since about 1999, we have received many telephone calls and letters to inquire about "tungsten gold". At first, the Criminal Police Department of Shanghai Public Security Bureau contacted us when collecting evidence of fraud cases. Later, banks in Xiamen and all over the country asked about "tungsten gold" and its value. In this way, in the past 30 years, the fraud under the name of the so-called Russian "tungsten gold bar" has been in practice for years.



The so-called Russian made Tungsten Gold Bar is often used to show people

In 2016, Shaanxi Boyuan Mining Co., Ltd. was found to be a typical fraud case of more than RMB 11 billion, which made it difficult for us to search for the fake gold pledge case of Shaanxi Boyuan Mining Co., Ltd; 2013 Linhai "tungsten steel Prince" fraud; In 2011, Hubei Yingcheng Puyuan Industrial Co., Ltd. defrauded 5.84 million yuan; In 2009, Hunan Yufeng Property Development Co., Ltd. defrauded a University of 2.75 million yuan; In 2008, Shanghai Guangrun trading company cheated the Bank of 18 million yuan by pretending to

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be tungsten gold as collateral; In 2007, a couple set up a scam with tungsten to defraud the boss of the company for 340000 yuan... The search results can be seen that there have been cases of tungsten fraud in recent years, which shows that many people are still keen on this. Therefore, we also take this opportunity to explain the so-called Russian "tungsten bullion" again and expose the essence of fake "tungsten" fraud.

2. Mixed "Tungsten Gold" Information

2.1 Mixed "Tungsten Gold" information on Baidu.com

First of all, let's see what Baidu says!

On Baidu's home page, we input "tungsten gold". The result is shown in the figure. The first link to sell tungsten gold bars is Baidu love purchasing, the second is Baidu Encyclopedia, and the third is 1688. At a glance, it's all big coffee! This may be the popular "wanciba screen" recently!

Similarly, we can see all kinds of advertisements in Baidu's non-ferrous metal bar, baidu Q & A, baidu tungsten bar and many other columns, most of which are the words of sky-high tungsten gold, The most exaggerated is "100 tons of Russian hard tungsten gold bars, complete procedures, and the total price is 11.1 million / ton, including 8.5 million / ton of special ticket and 2.6 million / ton of small amount after tax. The company has 500kg of white tungsten gold bars as debt repayment products, pure texture, complete import documents, and the test report of SGS testing center".



Search on Baidu.com for the results at the top of the home page displayed by “tungsten gold”

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Top content of Baidu's nonferrous metal bar:

Russia has 100 tons of hard tungsten gold bars with complete procedures, and the total price is 11.1 million / ton, including 8.5 million / ton of special ticket and 2.6 million / ton of small amount after tax.

Our company has 99.9924% high-purity "four nines" tungsten bars imported from Russia. The price is 180000.00 yuan

A carefully written answer of Baidu Q & A:

Tungsten gold is a rare non-ferrous mineral product in the world. Its annual output is very low and it is widely used. It is mainly used as raw material for casting ingredients. Tungsten gold comes from a white sand shaped ore body. The ore line is very small. After mining, grinding, water gravity separation, refining and other processes, tungsten ore powder with a grade of more than 95% is obtained, and then refined and formed in a high-temperature electric furnace. The finished product is tungsten gold. Melting point of tungsten gold: 3500 ℃. At present, tungsten ores are mainly distributed in China and Russia. China is now the largest exporter of tungsten and gold in the world. Generally, the purity of tungsten gold should be more than 99.95%, and the inspection, analysis and test report of the authority must be issued, such as the analysis and test report of the national non-ferrous metals and electronic materials analysis and test center. At present, the trading volume in the market is relatively small and the prices are different. In addition, the price of tungsten itself is very expensive, so it is difficult to unify the prices in the market. According to the current situation, the price of tungsten gold is mainly distinguished by purity, and due to the purpose, more owners use it in the form of gold reserves, and most people transfer tungsten gold as tangible assets. At present, tungsten gold with the following purity is the most sold on the market: purity: 99.95%, price: 20000-30000 / kg, purity: 99.96%, price: 40000-50000 / kg, purity: 99.97%, price: about 100000 / kg, purity: 99.99%, price: about 170000 / kg, and the price above is for reference only

Let's take another look. Many websites have tungsten gold descriptions:

Russian black soft tungsten gold, domestic yellow soft tungsten gold. Grade: excellent grade pure GR, other categories, Russian black soft tungsten gold content ≥ 83.30% w: ≥ 16.48% (%), product specification 1kg; 630000 yuan / kg (excluding freight). 1、 Product Name: soft tungsten gold (powder alloy) II. Quality standard: Au: ≥ 83.30% w: ≥ 16.48%, and the rest is other trace elements. Density: 17-19 / cm3 grain size: GB / t3488-1983 III. specification: strip 14mm x 14mmx250mm/500g four, physical properties: yellow, black, knife or bite marks five, packing: inner foam, outer stainless steel, no markings. Au ≥ 83%, w ≥ 16.4%, density: 18-19%, grain size: 8000mm3, impurity content: 0.33 (%). Origin: Russia. 6、 Color: Tungsten black, shimmering, teeth can bite out tooth marks.

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Special statement: the above information is only for display in good faith. I cannot confirm whether the material object mentioned in the information is tungsten or gold, nor can I prove the true purpose and meaning of the information.



It is said on the Internet that gold produced in Hitler's Nazi era and tungsten Nuggets made by tungsten smelting

2.2 Why is it called Russian "tungsten gold" or "tungsten gold bar"?

This is a problem! The possible reasons for letting us want to break our heads are as follows:

(1) Russia's military industry is very powerful. Many fraudsters describe products produced by Russia's military industry. Therefore, the purity of military tungsten produced by Russia's military industry is very high, often described as tungsten content of 99.99%. This confusion reminds everyone of Hangjin's 99.99% gold content of four nines, so they mistakenly think it is very good.

(2) After the disintegration of the former Soviet Union, it was divided into many countries. Russia is one of the largest countries. However, after the disintegration of the former Soviet Union, due to the fragmentation of industry, the lack of livelihood products and the low price of industrial products, they became very poor. Therefore, even expensive tungsten was sold to China at a low price, so we had the opportunity to "pick up the leak".

(3) Few people know Russian now. The older generation of Russian learners in the last century don't surf the Internet now, so they can't understand the Russian tungsten gold with the mark of Russian and Russian.

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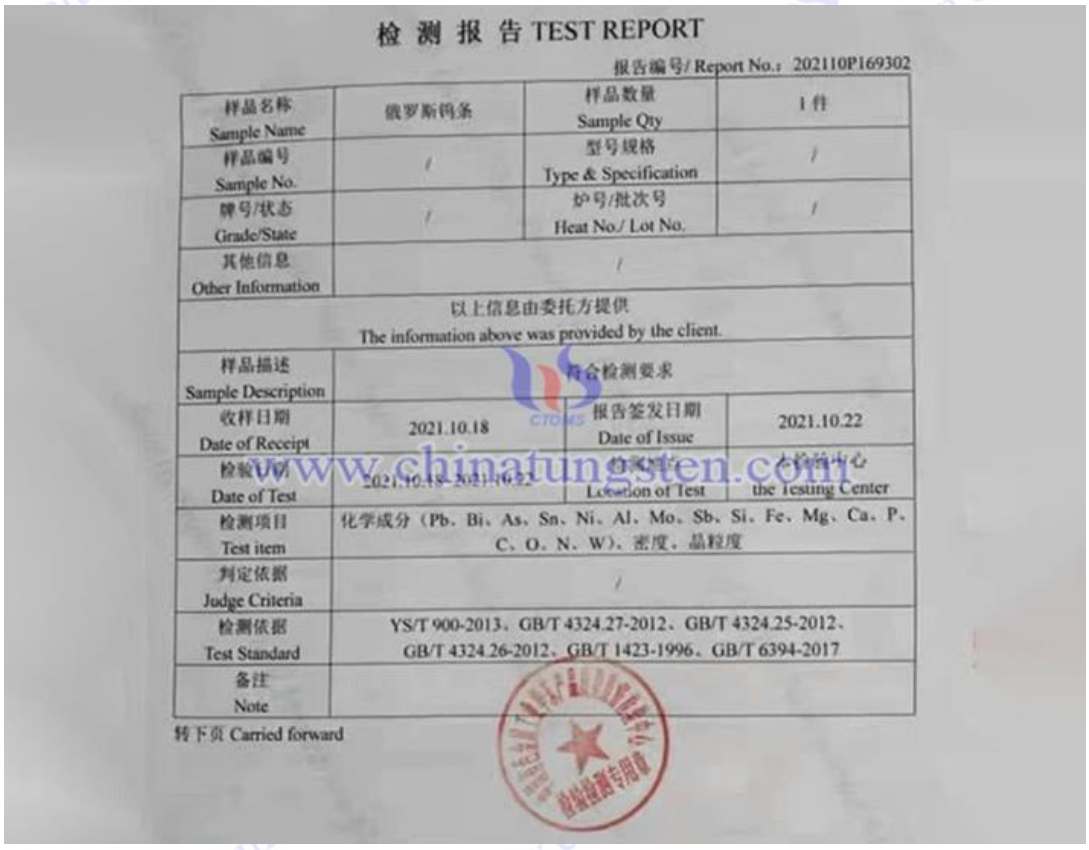
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(4) Unlike many western countries, Russia always defends its rights and entangles with us. Therefore, Russia tungsten gold, just say it casually, it doesn't matter! What's more, now that they are fighting with Ukraine, they have no time to talk nonsense with us.

Maybe so! Otherwise?



A deceptive picture of the so-called Russian tungsten bullion inventory used by many people on the Internet



检 测 报 告 TEST REPORT

报告编号/ Report No.：202110P169302

样品名称 Sample Name	俄罗斯钨条	样品数量 Sample Qty	1 件
样品编号 Sample No.	/	型号规格 Type & Specification	/
牌号/状态 Grade/State	/	炉号/批次号 Heat No./ Lot No.	/
其他信息 Other Information	/		
以上信息由委托方提供 The information above was provided by the client.			
样品描述 Sample Description	符合检测要求		
收样日期 Date of Receipt	2021.10.18	报告签发日期 Date of Issue	2021.10.22
检验日期 Date of Test	2021.10.18-2021.10.22	检测地点 Location of Test	本检验中心 the Testing Center
检测项目 Test item	化学成分（Pb、Bi、As、Sn、Ni、Al、Mo、Sb、Si、Fe、Mg、Ca、P、C、O、N、W）、密度、晶粒度		
判定依据 Judge Criteria	/		
检测依据 Test Standard	YS/T 900-2013、GB/T 4324.27-2012、GB/T 4324.25-2012、GB/T 4324.26-2012、GB/T 1423-1996、GB/T 6394-2017		
备注 Note			

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A serious test report on Russian tungsten bars was shown to the author of this article

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同位素
ОБЛАСТЬ ПРИМЕНЕНИЯ/适用范围。

-- 化学元件 Химический Элемент- 钨 ВОЛЬФРАМ
-- 化学形 Химическая форма- 金属，氧化物 Металл, оксид W,
-- 化学式 Химическая формула- WO3

-- 同位素 Изотоп:	-- 自然原百分比元素含量 % Природное содержание % -	-- (提高金属)富集水平 % Уровень обогащения %-
180W	0,12	99,9
182W	26,50	99,8
183W	14,31	99,8
184W	30,64	99,8
186W	28,43	99,9

Область применения/适用范围：

Используется в качестве радиоактивной метки при исследованиях вещества.

Например, Стабильный 184W используется как компонент сплавов с ураном-235, применяемых в твердофазных ядерных ракетных двигателях, поскольку это единственный из распространённых изотопов вольфрама, имеющий низкое сечение захвата тепловых нейтронов (около 2 барн).

此放射性的标签(于研究) 。例如，使用 184W 稳定作为合金与铀 235 的成分，在固相核火箭发动机中使用，因为这是唯一的钨的具有低的热中子俘获截面（约 2 靶）的共同的同位素。

The picture above is actually the information of recommended Russian tungsten gold and tungsten isotopes received by the author of this article on the day of modifying this article.

2.3 Are the "Tungsten Gold" and "Tungsten Gold Bar" Tested and Verified by the Testing Organization True?

It seems that in order to enhance the credibility of the so-called "tungsten gold" in Russia, fraudsters often provide the test reports of so-called authoritative institutions, such as SGS, China's authoritative iron and steel or non-ferrous metal research and inspection institutions, or provide some test reports in Russian that few people can understand, certificate of origin, etc., and these seem to be true!

Yes, this is true, because (1) we should all know that all inspection and testing institutions only detect the samples submitted for inspection and are only responsible for the inspection results of the samples submitted for inspection. You can check carefully. Almost all inspection reports will have such statements; The implication is that we are only responsible for the tested materials. We are responsible for ensuring that the materials have been damaged or broken by us for testing. What you see is not tested. Sorry, our monitoring organization can't be responsible! (2) Moreover, even if our testing agency proves that the content of all materials is above 99.95, so what! What we describe and prove is only the content of metal tungsten. Metal tungsten bars are produced after metal tungsten powder is sintered at a high temperature of about 1400 degrees. Other impurities with extremely low content have already been gasified. Of course, they are high-purity, but the fact is that high-purity tungsten products are not high-purity gold!

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传真/FAX：0086 592 512 9797
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Real Gold Bar

3. Discrimination Between "Tungsten Gold", "Tungsten Gold Bar" & Real Gold

3.1 From the Pperspective of Metal Properties, "Tungsten Gold" and "Tungsten Gold Bar"

3.1.1 What is Tungsten Bar?

Tungsten is a kind of refractory metal, belonging to a kind of heavy non-ferrous metal. Tungsten has silver white metallic luster, high hardness and high melting point. It is not eroded by air at room temperature and has stable chemical properties. China's tungsten resource reserves and production account for about 70% and 80% of the world respectively.

Tungsten concentrate is produced by hydrometallurgy to produce tungsten oxide. Tungsten powder is prepared by reducing tungsten oxide. Tungsten powder is pressed and formed in the mold and sintered to produce the embryo material of metal tungsten. If rectangular, elliptical or circular metal tungsten products can be obtained according to the shape of the mold, generally speaking, the so-called tungsten gold and tungsten gold bars are actually the rough embryo materials of such simple sintered unprocessed tungsten bars, tungsten plates, tungsten rods, tungsten rods and other products.

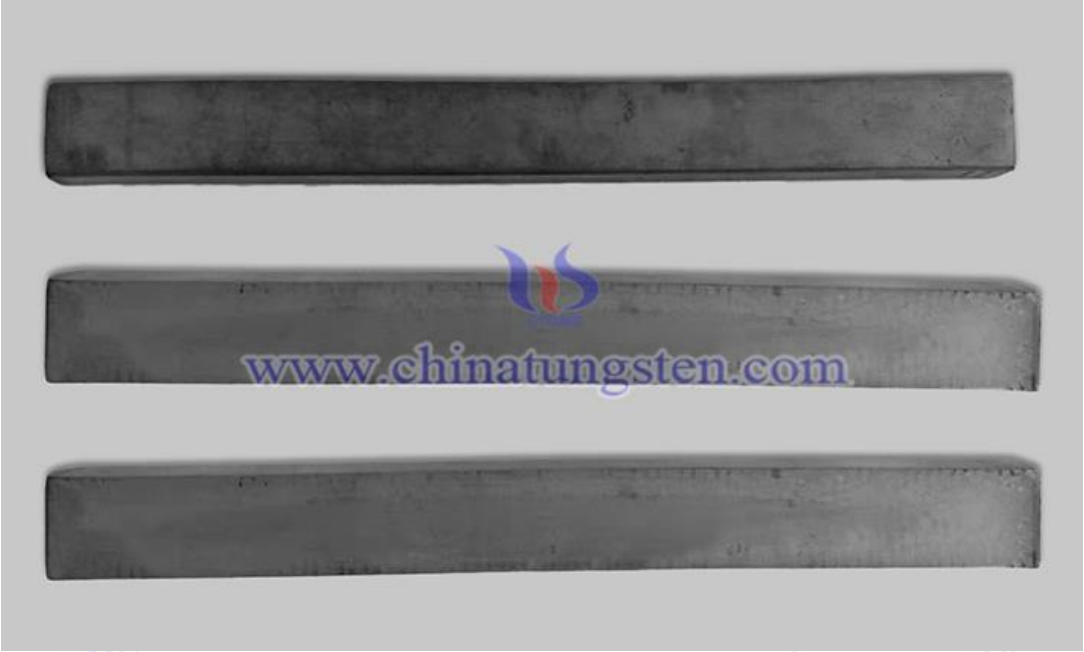
3.1.2 What is the Basic Physicochemical Form of Tungsten Bar?

Tungsten bars without forging and rolling have no strict overall dimensions, and the density is difficult to reach the theoretical density of 19.3 g / cm3, but the natural properties of tungsten elements with high melting point and high boiling point remain unchanged; Tungsten bar, if it is high-purity, is basically not eroded at room temperature, and its

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chemical properties are also very stable. However, in fact, in addition to the rotary forging tungsten bar used for processing such as tungsten wire, although it has a certain hardness of metal properties, the general steel-making tungsten bar has little strength. Due to its low purity, it is easy to produce surface oxide layer in natural state. This is not the oxidation of tungsten itself, but the appearance of oxidation of surface impurities of tungsten bar.



Tungsten Metal Bar

3.1.3 What is Tungsten Bar Used For?

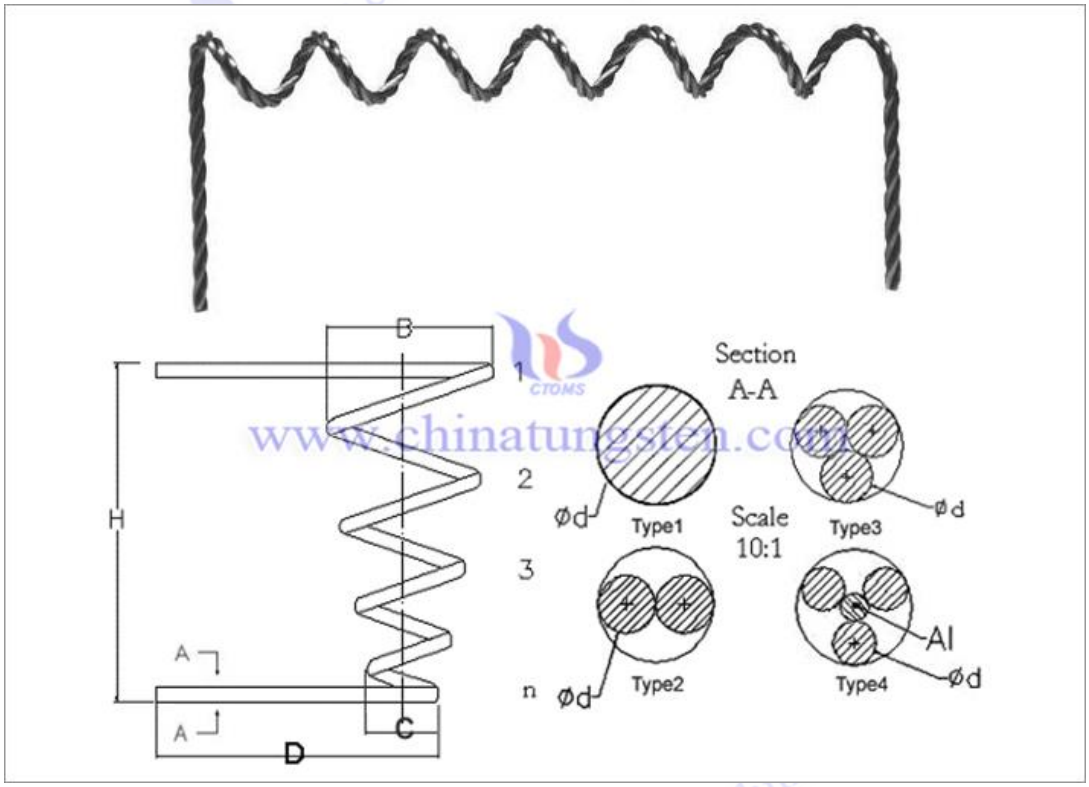
After tungsten bars are produced, they are called gold bars. This is the state in which gold bars are naturally sintered. At this time, the tungsten bar, or you can say that it is tungsten gold bar, has no industrial significance except that it can be used to smelt tungsten steel, or recycled as waste to produce tungstic acid or zinc to obtain crude tungsten powder after melting.

The pre fired metal tungsten blank, block or tungsten bar are processed through multiple processes such as forging, vertical solution, rotary forging, heat treatment and changing drawing to obtain tungsten rod, tungsten rod, tungsten electrode, tungsten wire and other metal tungsten products with good strength, high hardness and close to the theoretical density. China Tungsten online often produces various types of tungsten screw, tungsten heater, tungsten contact, tungsten thermal conductor, tungsten boat and dish for smelting rare and precious metals for customers Tungsten crucible, etc; The specially polished and processed tungsten needle is the most sophisticated high-end tungsten products for radio and television and chip testing produced by us for our customers; In recent years, a large number of metal products are used to process and produce various parts and heating elements of sapphire long crystal furnace. In the actual production process, in addition to producing pure metal tungsten products, in order to produce doped tungsten products

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such as doped tungsten wires with excellent performance, potassium, sodium and / or aluminum are generally added in the raw material preparation process to obtain tungsten blanks containing hundreds to nearly thousands of PPM doped metals, which are used to manufacture shock and sag resistant tungsten wires, such as traditional automobile filaments and common high-power square neon lamps, stage lamps and other products.



Doped tungsten heater, stranded tungsten wire

After more processes and processes, metal tungsten powder is mainly used to manufacture tungsten wires, tungsten electrodes, high-speed cutting tools, superhard molds, medical treatment, nuclear energy, military industry, electronics, optical instruments, etc; According to the statistical data for many years, the largest consumption and main uses of tungsten resources are cemented carbide cutting tools, high specific gravity tungsten alloy counterweights and shields, tungsten copper alloy electrical components and petroleum smelting catalysis, etc; In recent years, the technology of using tungsten to make new energy batteries, which has made continuous research and development progress, will have a broader application prospect once the breakthrough is made.

3. 1.4 What's the Market Price of Tungsten Bars?

As mentioned above, tungsten bar is a simple sintered metal tungsten product, which is only used for steel smelting, so its price is only a little more than that of conventional tungsten powder, which consumes electricity and human resources during sintering. If someone now talks about the value of tungsten bars (tungsten gold bars) and how many thousands and kilograms they sell everywhere, it's really a thoughtless, blatant, simple and

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rough fraud!

The current market price of tungsten bars has been at a high level in recent years. Generally, the price including tax in batch is 320 / kg. The following table is quoted by the public official account of "tungsten online" in March 23, 2022 for external tungsten products, including the regular price of tungsten steel strip. We are responsible to say that if you need it, you can sell it to this price, how much you can!

Price of Tungsten Products Chinatungsten Online Mar. 23 2022		
Product	**Specification/ WO3 Content**	**PRICE (USD, EXW XIAMEN, CHINA)**
Ferro Tungsten	≥70%	28,871.00 USD/Tonne
Ammonium Paratungstate	≥88.5%	331.70 USD/MTU
Tungsten Powder	≥99.7%	45.00 USD/KG
Tungsten Carbide Powder	≥99.7%	44.70 USD/KG
1#Tungsten Bar	≥99.95%	52.40 USD/KG
Disclaimer: The above quotation from CTOMS is only for reference of marketing price instead of contract price. CTOMS has no responsibility for any potential marketing risk. More details please visit: http://news.chin... or http://www.ctia.com.cn/en/.		

The price of China's tungsten products market announced by China Tungsten Online every day in Chinese and English is the most authoritative and timely tungsten price benchmark in the world. The latest quotation of tungsten products every day can be obtained by visiting our website (www.ctia.com.cn)

3.1.5 Where Do You Buy Tungsten Bars?

We can know from the use of tungsten bars that the use of simply sintered tungsten bars is only steelmaking, and the rest can be ignored. Therefore, the global production and use of tungsten bars are not large. In 2019, China produced only 4616 tons of steel-making tungsten bars, of which the largest output is Guangdong (1500 tons), Sichuan (1400 tons), Beijing (900 tons), Hunan (476 tons), Jiangxi (300 tons) and Shaanxi (40 tons). Other countries in the world have produced a total of 1158 tons of metal tungsten bars, of which Japan is the largest, with an annual output of 602 tons; The refined forged tungsten rods such as tungsten wires are only 588 tons, of which 377 tons are accounted for by Japan. From the above statistics provided by China Tungsten online, we can know that tungsten itself is a metal with small reserves and output, and tungsten bars also account for a small proportion of tungsten products. Over the years, someone can use such a very ordinary tungsten product to defraud tens of thousands, tens of thousands, hundreds of thousands, millions and even tens of billions. It's really strange people, wonders and wizards!

We know from the above information that tungsten bars are sold in China, Japan and other

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countries. Of course, China Tungsten online, which the author serves, also sells tungsten bars of ordinary specifications.

3.2 Gold Bullion

3.2.1 What is a Gold Bar?

Gold is a precious metal with soft texture, yellow appearance, stable properties and difficult decomposition. Its density is 19.3g/cm3, melting point is 1064.4 ℃, it has good ductility, can be pressed into thin foil, and has high heat transfer and conductivity. The resistance of pure gold is 2.4p. Pure gold has good chemical corrosion resistance and is the best electroplating material. In ancient China, "two" was taken as the gold unit. It is a very important metal. It is not only a special currency for reserve and investment, but also an important material for jewelry industry, electronics industry, modern communication, aerospace industry and other departments.



Small gold nuggets that have been in circulation in ancient China

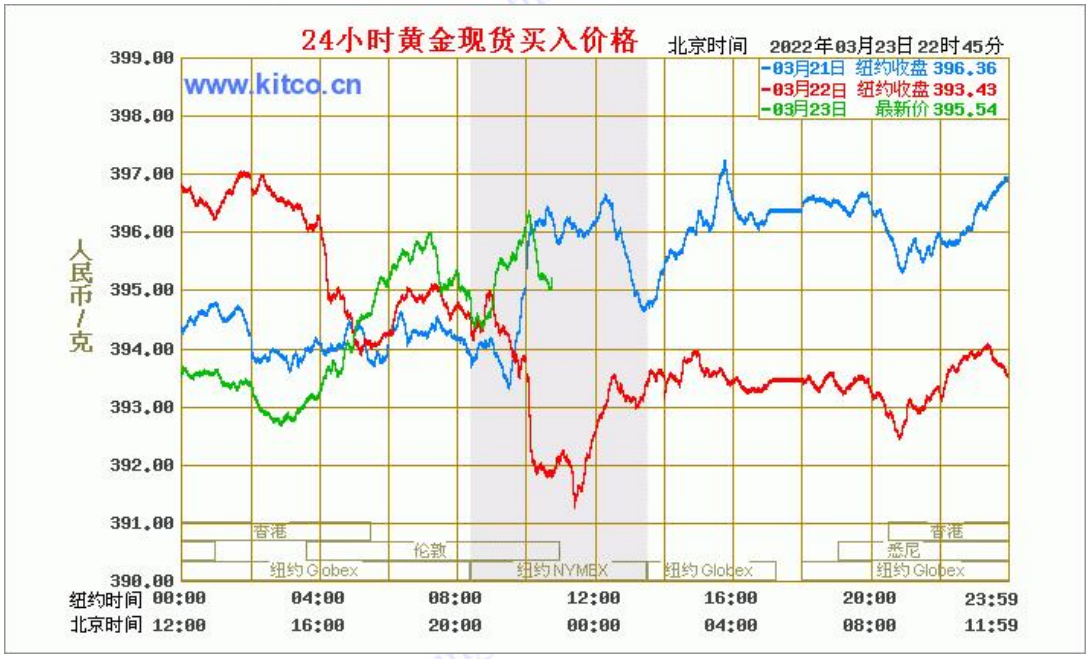
The chemical stability of gold is extremely high. It is extremely stable in alkali and various acids. It is not oxidized or discolored in the air. Gold is obviously insoluble in hydrogen, oxygen and nitrogen. Oxygen does not affect its high-temperature characteristics. It does not melt, oxidize, discolor or lose at 1000 ℃, which is the most significant difference between gold and all other metals. Gold is a metal discovered and used by human beings earlier. Because it is rare, special and precious, it has been regarded as the first metal since ancient times. It has the title of "king of metal" and enjoys a reputation unmatched by other metals. Because of this status, gold was once a symbol of wealth and luxury, used for financial reserves, currency, jewelry and so on. With the development of society, the economic status and commodity application of gold are constantly changing, its financial

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reserve and monetary functions are adjusting, and its commodity functions are returning. With the rapid development of modern industry and high technology, the application of gold in these fields has gradually expanded. So far, the application of gold in the fields of international reserves, currency, jewelry and so on still occupies a major position.

Baidu Encyclopedia entry "gold bars" said: "gold bars come from ancient currency circulation and are more used in the field of collection and investment. Major banks and financial institutions around the world reserve and circulate gold bars with their own signatures, such as the standard gold bars of Shanghai gold exchange. Gold bars are divided into ounces of gold and grams of gold, and 400 ounces (12.5 kilograms) of gold bars are commonly used internationally." According to international practice, gold bars traded in the market must be marked with their fineness and weight, as well as the name and number of the refinery. The commonly used unit of measurement in the international gold market is the troy ounce, which is specially used for the trading of precious metal commodities. One troy ounce is equal to 31.1035 grams. China used to measure gold in two units, but now it is mainly grams.

3.2.2 What is the Price of Gold?



Gold price on March 23, 2022

Before the disintegration of the gold standard in August 1971, the official price of gold established by the Bretton Woods system was $35 per ounce. By 1973, it had exceeded US $100 / ounce. In 1978, when the Jamaica agreement came into force, it exceeded US $200 and reached a high of US $850 / ounce on January 21, 1980. The price of gold once approached $250 / oz from $850 / oz in early 1980 to August 1999. In recent years, the price of gold has risen sharply. On October 12, 2021, the price of gold was $1760 / oz. recently, due to the conflict between Russia and Ukraine, the price of gold once exceeded $2000 / oz;

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Today's gold price in the international market is about 400 yuan / gram.

4. What is Tungsten?

First of all, we should emphasize that from the perspective of physics, there is no such thing as tungsten and gold, and there is no tungsten gold alloy in the strict sense. Tungsten and gold are two distinct metal elements. Due to their great differences in melting points, they cannot become a real alloy. Therefore, even if they are mixed to make an alloy, they are only a false alloy, which is the same as tungsten silver and tungsten copper.

In fact, in real life, we sometimes call tungsten alloy rings tungsten gold rings in the publicity of some jewelry manufacturers. This kind of tungsten alloy ring is an alloy of tungsten and metal nickel. These two alloys are two-phase alloys. Nickel is sintered as a metal binder to make tungsten alloy. This alloy is a combination of tungsten carbide powder and nickel, which has high hardness and strength. It is also called tungsten steel. Therefore, tungsten gold ring finger can also be called tungsten steel ring. The appearance of this kind of ring has clear color and texture. Because of its low price and simple modeling technology, it is deeply favored by fashion circles. The other refers to the tungsten alloy gold-plated ring, that is, gold-plated on the surface of the tungsten alloy ring to make it have the same golden appearance as the gold ring. This kind of ring can also be called gold-plated tungsten ring. Therefore, according to this statement, let's temporarily think that tungsten nickel alloy ring is a kind of tungsten gold jewelry!

4.1 How are Tungsten Bars and Fake Gold Bars Made?

We believe that tungsten bars are called tungsten gold bars. There are only two kinds of fraud methods to pretend to be gold bars: (1) one is to use fake gold bricks wrapped with tungsten blocks, which looks like standard gold, and the content of tungsten is very high. Gold is just to decorate the appearance and make it look like standard gold bars; This kind of fake gold is difficult to distinguish from the appearance, and can also deceive ordinary detection instruments and density detection methods. (2) Another method is to directly treat the tungsten bar into the appearance of standard gold, and then gold-plated tungsten bar, which is similar in appearance.

4.2 Gold Plated Tungsten Bars and Gold-Plated Tungsten Souvenirs

During the past design and production, our company produced and designed many tungsten commemorative products, such as the animals of the Chinese zodiac, such as the small animal like ice pier, wedding anniversary, company anniversary, birthday, full moon, golden wedding, school meeting, comrades' meeting, hometown society, etc. For such products, we first need the real name information of the buyer, and the buyer needs to sign the guarantee for legal use, and do everything possible to prevent and possible fraud.

Many friends like the 20th anniversary ring of "China Tungsten online" designed and made

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by us. It is something we have always been proud of! The tungsten alloy gold-plated Paperweight designed and processed by the author himself is also one of the four treasures of his own study.



Men's commemorative ring for the 20th anniversary of China Tungsten Online, more details please visit the site http://www.tungsten-jewellery.com

4.3 How to Judge True and False Tungsten Bars and Gold Bars?

(1) For the first fake gold bar or tungsten gold bar wrapped with tungsten core, we know that the density of gold is 19.3g/cm3 and that of tungsten is 19.25g/cm3. The density of the two is very similar. Therefore, many fraudsters use the density to mislead and deceive people. Because our common sense believes that the simplest method of density measurement is Archimedes method, that is, drainage method. However, such a simple and economical method is difficult to detect the fake gold bar wrapped with gold outside the metal tungsten core, especially when the test is not very accurate or the tester's level is limited. For this kind of fake gold bar or tungsten gold bar, the destruction method, i.e. the detection method of breakdown or remelting melting, can be used, and it is easy to find the fishiness.

(2) The detection of gold-plated tungsten bars can be examined by direct sensory real people, because the external shape and size of this tungsten bar are too standard, and the traces of machining are obvious, which is not like the convex and concave feeling formed by the natural cooling and forming of molten liquid gold in the casting mold; In addition, the logo of machining, gold content, producer name, etc. the patterns or words engraved by machining or laser engraving are completely different from those stamped by real gold during cooling. Therefore, we can distinguish this kind of tungsten gold bar simply through naked eye observation and touch.

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4.4 How to Prevent "Tungsten Gold" and "Tungsten Bullion" Fraud?

(1) Basic principle: the highest level of fraud prevention is "not making cheap", believing that pie will not fall in the sky and traps are everywhere on the ground. The reason why we can't take advantage of others' opportunities is that we can't cheat ourselves if we are greedy and honest.
(2) In case of peddling tungsten gold and tungsten gold bars, check the wechat or website of China Tungsten online to see what experts say.
(3) Baidu a lot, take a look at the online people's experience of being cheated, and increase their knowledge.
(4) Directly contact the relevant experts of China Tungsten online for consultation, which is guaranteed to be free!

5. Is There Any Tungsten Gold?

In real life, we have indeed encountered tungsten and gold alloy products. China Tungsten online has also designed, processed and produced such tungsten and gold handicrafts and industrial products for customers. Of course, we guarantee that these are produced and used legally, not for fraud of pretending to be gold.

In our actual production, there are generally two kinds of tungsten alloys that can be used as non industrial tungsten products. One is tungsten carbide based cemented carbide with nickel binder, such as tungsten alloy ring; The other is tungsten nickel iron, or tungsten nickel copper high specific gravity tungsten alloy products, such as tungsten alloy credit card, tungsten alloy handicraft, tungsten alloy cube, etc.

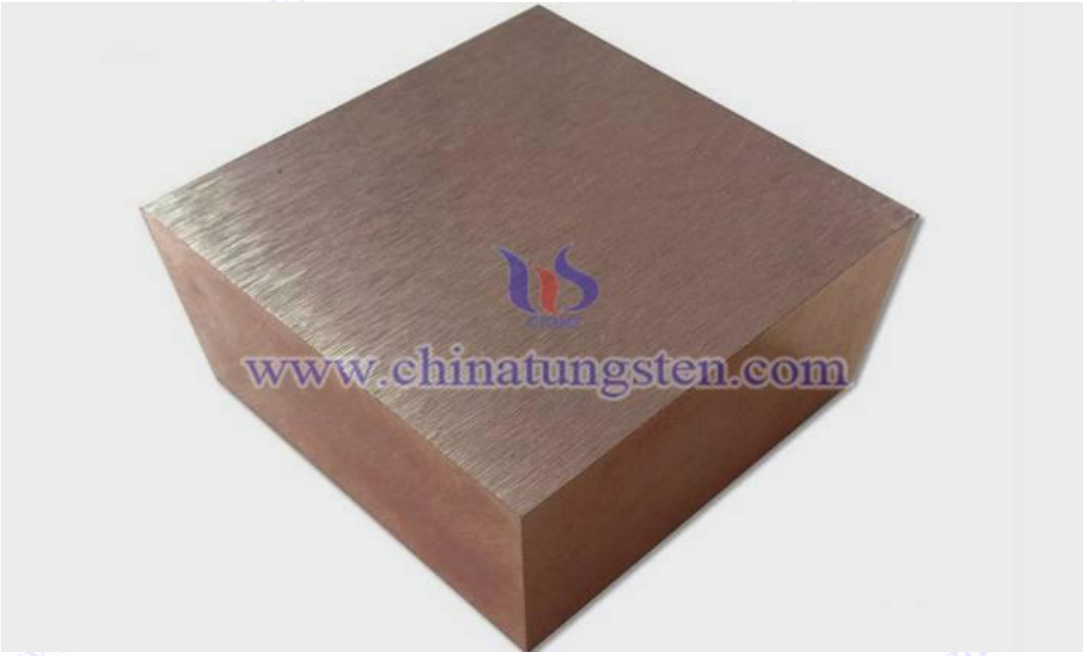
5.1 Tungsten & Gold Alloys Produced by Gold Infiltration Process

Strictly speaking, metal tungsten and gold cannot produce alloy by melting. The

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author of this paper did see the 80 / 20 Wau tungsten gold alloy made by domestic manufacturers specializing in tungsten and gold in 2010. Its appearance is a rectangular alloy strip, and its appearance color is basically silver gray similar to that of metal tungsten strip, but its section can clearly see the gold composition penetrating between metal tungsten particles, it has obvious gold luster. This is a typical product made by copper infiltration process made of tungsten copper. Its density is lower than the theoretical density, about 18.9g/cm3. We can call it tungsten gold bar made by gold infiltration process. This tungsten gold bar is made for the subsequent forging and manufacturing of gold containing tungsten bars, tungsten needles or other conductive materials, packaging materials and other test equipment samples. It should be that the subsequent process and application have not been expanded. As far as we know, the product has not been mass produced after that, or its application may be limited entirely due to the high cost of tungsten gold alloy.



Tungsten copper alloy, when the content of copper reaches more than 20%, it will have the color of metal copper

5.2 Tungsten Alloy Gold-plated Tungsten Parts

Tungsten alloys produced by various shapes and materials can be plated with gold. Due to the similar density of tungsten and gold, the weight and density of the tungsten alloy after gold plating are very close to that of real gold. Therefore, it is often mistaken for gold products, which is used by many people with improper mind as gold for fraud and other illegal acts. In the past production and sales process, China Tungsten online strictly registered some sensitive new purchases, such as gold-plated tungsten alloy bars, gold-plated tungsten alloy gold coins, which can easily be regarded as real gold products, so the production and sales are

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strictly limited.



Tungsten Alloy Gold-plated Paperweight

5.2.1 Tungsten Alloy Gold Substitutes

This kind of tungsten products can be divided into two kinds of uses. One is the "gold" display products made of tungsten alloy substrate in the way of gold plating for banks and other financial institutions to display the gold products they make and sell. This kind of display products include a variety of specifications and styles, such as gold bars, gold bricks, gold jewelry, golden zodiac jewelry and ornaments.



Gold Plated Tungsten Bar

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5.2.2 Tungsten Alloy Gold-plated Paperweight

One kind of tungsten alloy gold-plated products with Chinese characteristics is the Paperweight in the four treasures of the study. Paperweights of various shapes and totems can be made. Patterns or words can be engraved and then plated with gold. It can also be made of tungsten alloy on a gold-plated gold medal to show commemoration and encouragement.



2020 Zodiac tungsten alloy pig designed and processed by China Tungsten Online



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5.2.3 Tungsten Alloy Gold-plated Ccross, Jesus, Bible

Similarly, we process and customize souvenirs with religious significance and color for customers. Such as tungsten alloy and / or tungsten alloy gold-plated cross, tungsten alloy gold-plated model of famous churches, tungsten alloy gold-plated Jesus' statue, tungsten alloy gold-plated virgin mary statue, tungsten alloy bible book model, etc. Gilded statues of such religious figures. Apart from the high-temperature and high-density gold-plated products, which can endure high temperature and deformation, they should not lose the most precious and real statues. Besides the high-temperature and high-density gold-plated products, they should not lose their appearance.



Tungsten Alloy Cross

5.2.4 Tungsten Alloy Gold-plated Statues of Bodhisattva, Guanyin, Guan Gong and Mazu

We process and customize souvenirs and sacrificial supplies with religious significance and color for customers, such as tungsten alloy and / or tungsten alloy gold-plated Bodhisattva, tungsten alloy gold-plated Guanyin, tungsten alloy gold-plated statue of Guan Gong, tungsten alloy gold-plated Mazu, tungsten alloy gold-plated Jade Emperor, etc. to gilt traditional Chinese religious sacrificial gods and other religious figures. Apart from the high-temperature and high-density gold-plated products, which can endure high temperature and deformation, they should not lose the most precious and real statues. Besides the high-temperature and high-density gold-plated products, they should not lose their appearance.

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Tungsten alloy gold-plated crafts

5.2.4 Tungsten Alloy Gold-plated Satues & Scriptures of Religious Figures

We process and customize souvenirs with religious significance and color, sacrificial supplies, sacrificial statues of various Chinese traditional religions such as Taoism, Buddhism, Confucianism and gilded statues of other religious figures; Statues of religious gods and Scripture templates in other countries. Apart from the high-temperature and high-density gold-plated products, which can endure high temperature and deformation, they should not lose the most precious and real statues. Besides the high-temperature and high-density gold-plated products, they should not lose their appearance.

5.2.5 Tungsten Alloy Gold Plated Ring

Tungsten alloy rings made of tungsten and nickel should be the most popular tungsten alloy crafts in the market and the largest sales volume in the factory. Tungsten alloy with carbide as base material and metal nickel as binder is also a kind of cemented carbide, and its hardness is as high as hra90, which is enough to be used as a tool. Carbide and nickel cemented carbide, also known as tungsten steel, is actually characterized by non-magnetic alloy and no magnetism, which is suitable for some application scenarios with high magnetic requirements. However, in life, this kind of cemented carbide should be its excellent metal surface finish, hardness, durability, corrosion resistance and high strength, lower cost and price than diamond, platinum, platinum and gold, and mature manufacturing technology. It is widely used in the manufacture of rings and other daily handicrafts. China Tungsten online has designed and produced a large number of tungsten alloy rings and handicrafts.

5.2.6 Commemorative Ring

Tungsten alloy rings and other handicrafts are popular among young people because of their novel style design, unique material, fashion, novel style, durability

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and low price. This kind of fashionable rings can be customized on the basis of a small number and can highlight personalization, such as birthdays, various anniversaries, wedding anniversaries, China's baby full moon anniversary, classmate graduation anniversary, company line number, school celebration, etc.

The commemorative ring for the 20th anniversary of China Tungsten online company is a commemorative ring with simple and bright design and bright color. It has several styles of men, women and Eurasia. In the past few years, we have given it to many visiting customers and was deeply loved by customers.



Tungsten Alloy Gold Plated Ring

5.2.7 Tungsten Alloy Gold Plated Glass Crusher

What's more unique is that the tungsten alloy ring itself has the unique physical properties of cemented carbide, so it can be used as a sharp tool for glass breaking at the critical moment to meet the needs. When escaping from various confined spaces with glass windows and doors, it can be used as the focus to hit the broken glass.

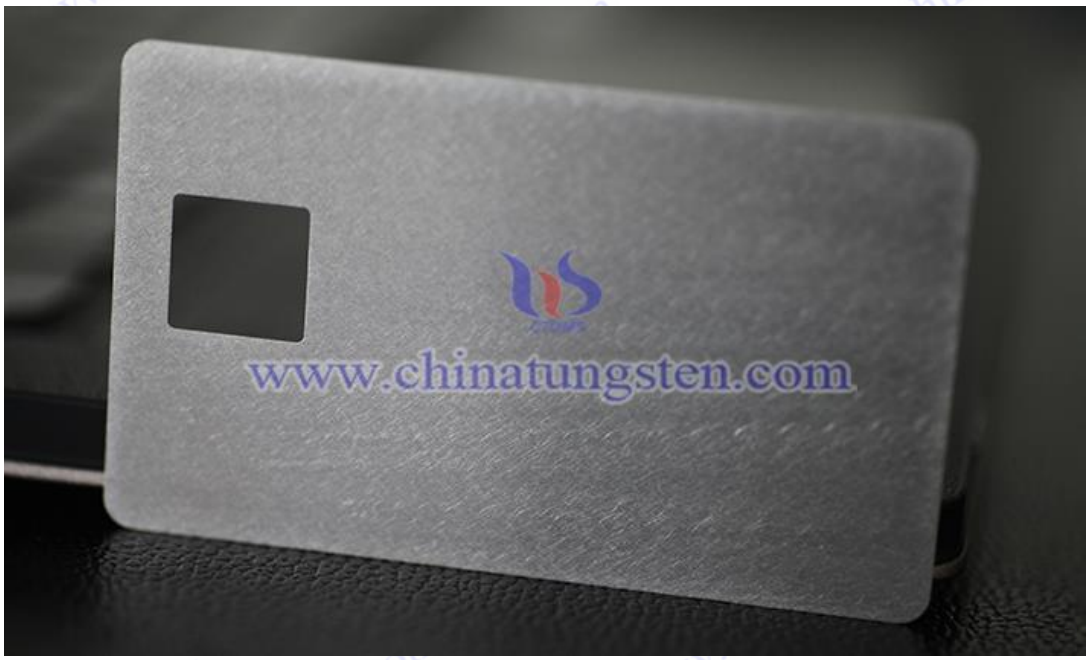
5.2.8 VIP Commemorative Gifts such as Insurance Companies & Banks

China Tungsten Online also allows various financial institutions and insurance companies to customize and process tungsten alloy gold-plated bricks, gold-plated strips, tungsten alloy gold-plated commemorative cards, tungsten alloy VIP cards, tungsten alloy key chains, tungsten alloy trunk cards, tungsten alloy car keys, tungsten alloy business cards, tungsten alloy business cards, etc.

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5.2.9 Tungsten Alloy Gold Plated Credit Card and Black Card

We have designed and made tungsten alloy credit cards for some banks. Tungsten alloy itself has the characteristics of heavy weight, heavy metal luster on the surface, good hand feel, wear resistance, high temperature resistance, corrosion resistance, high strength and not easy to break. It can be plated with gold, sprayed or evaporated with enterprise metal color. It is a noble and unique VIP credit card and the best material for black card making.



High Hensity Tungsten Alloy Credit Card Substrate

5.2.10 Gold Plated Tungsten Alloy Medals

Of course, we are happy to design and produce tungsten alloy gold, silver and bronze medals, or souvenirs of various awards for various sports, art, culture, film and television and other events. Such medals will be a souvenir that will never be lost.

5.2.11 Tungsten Alloy Pet Tag & Pet Card

If you have a pet you like, a cat or dog, or maybe a hawk or falcon, then a nameplate engraved with its unique annoying words may be a distinctive sign of the pet. At the same time, no matter what environment your pet is in, the tag will not be damaged, rusted or broken.

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Luggage Identification Tungsten Alloy Plate with All information QR Code of China Tungsten Online



Never Damage Tungsten Alloy Air Travel Luggage Tag Designed for Customers by CTIA GROUP

5.2.12 Tungsten Alloy Gold Plated Cube

Tungsten alloy cube, the hottest virtual currency token product at the end of last year and the beginning of this year, has also been processed into gold-plated cube by customers. It comes from bitcoin fomo virtual currency deficiency phobia or tungsten cube deficiency phobia. Therefore, we have processed many tungsten cubes with different spring and materials. We have been making this thing for many

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years, with various materials and shapes. Of course, gold bars and cubes are the most. Plated with K gold and high density comparable to gold, we can really confuse the fake with the real! However, we just use it as souvenirs and paperweights. We really didn't expect it to be used as a representative of cryptocurrency and bitcoin. As one of the new favorites of current cryptocurrency lovers, tungsten cube is also called tungsten cube or tungsten cube, which is called tungsten cube or wolfram cube in English. In the actual production and trade process, we sometimes call it tungsten blocks and tungsten bricks, while the gold-plated tungsten cube or tungsten block is called tungsten gold plated tungsten cube or golden plated tungsten bricks.

According to different sizes, tungsten cubes can be divided into large, medium and small cubes; According to different materials, it can be divided into pure tungsten block (metal tungsten block), tungsten-based alloy block and cemented carbide block. According to the type and quantity of binder, tungsten-based alloy block can be divided into two-phase alloy block (such as tungsten copper alloy block and tungsten silver alloy block), three-phase alloy block (such as tungsten nickel iron alloy block and tungsten nickel copper alloy block) and high entropy alloy block (multi principal alloy); According to different binders, cemented carbide blocks can be divided into WC Co alloy blocks and WC Ni alloy blocks.



For more information about tungsten cube and gold-plated tungsten cube, you can visit our new website for tungsten products http://news.chinatungsten.com

5.2.13 Tungsten Alloy (Gold Plated) Earrings, lip ring, Nose ring

Various accessories related to human body made of tungsten alloy have unique advantages, that is, tungsten alloy will not rust and will not be harmful to human

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body in most conventional cases. This is why all kinds of accessories made of tungsten alloy are very popular.These accessories are as Ear Studs，Earrings，Ear stick，Ear rings，Ear line，Ear clip，Ear-hook，Ear bone stick，Ear clip，Earrings，Cochlear nail，Ear plug，Nasal nail，Nose ring，Labret，Lip ring，Eyebrow nail，etc.





Tungsten Alloy Ear Rings

6. How Can Identify Tungsten Alloy or Gold?

This article has made it clear that there is only metal tungsten or tungsten alloy, and there is no such thing as tungsten gold. Therefore, as long as you query online, the

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starting price is too much higher than the price of metal tungsten bars, which basically belongs to the nature of fraud.

For non professionals, tungsten gold products without gold plating can be easily distinguished in color. Of course, as long as you can touch them, you can feel their obvious difference. Therefore, many so-called tungsten golds can distinguish the authenticity only by appearance.

For tungsten bars or tungsten gold bars that claim to contain gold, it is difficult to identify the so-called tungsten gold products in the name of gold on the market for non professionals. In this case, it is necessary to ask a professional inspection organization for inspection. In fact, even a professional inspection organization is difficult to inspect all products in the same batch, because such inspection needs to be destructive, and the products can be sampled for inspection only when they are broken. Therefore, even if there is an inspection report, it is not credible. Moreover, the processing technology of gold in metal is unnecessary and almost impossible, and there are few practical applications.

Of course, if you do encounter such problems and can't solve them, you can call or email us. I believe we can help you.

(PART VII of this paper is finished, PART IIX TO X is to be continued)

SUMMARY

Based on the experience of tungsten products market in the past decades and the current situation of the conflict between Russia and Ukraine, the author believes that the price of tungsten products will continue to rise in 2022, but the main factor is not traditional market factors; Therefore, in the first part, we focus on the Russian Ukrainian conflict and the military use and importance of tungsten products. In the second, third and fourth parts, we focus on the global resource distribution of tungsten products, especially the overview of Russian tungsten resources and the relationship between China's tungsten products industry and Russia. In the fifth part, we analyze the cost pressure of US dollar over issuance and fed interest generation on China's tungsten market under the background of Russian Ukrainian conflict, And the possibility of RMB strength; The sixth part discusses the particularity, feasibility, legal conflict and risk of tungsten products futures in China; This part describes some recent news such as the so-called sky high price "Russian tungsten bullion" and other fraud from time to time in recent decades, trying to give you the most clear anti fraud information.

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Appendix I

Guard Against the "Tungsten Gold" Trap

"Tungsten gold" now appears more and more frequently in the field of economic circulation. In recent years, the China Tungsten Industry Association has often received calls, letters or received inquiries. From the analysis reports provided, first, most of the so-called "tungsten gold" bars are tungsten bars or tungsten alloys containing other alloy elements; Second, other metals with a large proportion are called "tungsten gold", such as lead; Third, tungsten materials containing gold are called "tungsten gold". The above three appellations are unscientific and easy to confuse the public. The corresponding name should be:

Metal tungsten (tungsten bar), lead, gold alloy.

It is important to clarify the name of "tungsten gold" because the price varies greatly. Metal tungsten (tungsten bar, tungsten rod and doped tungsten bar) is divided into pure tungsten bar, doped (silicon, aluminum and potassium) tungsten bar and tungsten alloy according to chemical composition. The brand of pure tungsten bar is expressed in the form of W plus Arabic numerals. For example, W1 contains tungsten greater than 99.959%; Doped tungsten bars are represented by wal and Arabic numerals; Tungsten alloys are represented by W plus English letters and Arabic numerals. English letters are alloy element symbols, and Arabic numerals represent the content of alloy elements.

Metal tungsten (tungsten bar) is priced in "ton", and the current market price is about 240000 yuan ~ 300000 yuan per ton; Lead is also priced in "tons", and the current market price is about 13500 yuan per ton; Gold alloy is gold and belongs to precious metal. At present, it has not been found that tungsten and gold can form a completely solid solution alloy. Even if it contains a small amount of tungsten, it also belongs to gold. Domestic gold is usually priced in "grams" and international gold is priced in "ounces". At present, the international gold price is about 960 US dollars / ounce. At present, the domestic gold market price is about 210 yuan per gram, which is converted to 210 million yuan per ton.

Due to the huge differences in prices, the vague appellation is easy to produce economic scams, so we need to be highly vigilant against the "tungsten gold" trap.

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(By Dr. Hanns)

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www.chinatungsten.com
电话/TEL：0086 592 512 9696/512 9595
传真/FAX：0086 592 512 9797
邮箱/Emailsales@chinatungsten.com

Appendix II

Uncover the Fraud and Identification of "Tungsten Gold"

First of all, the so-called "tungsten gold" here is a non-existent thing that is often used by swindlers to deceive people. In 2009, the author himself sent an article on the website of China Tungsten Association (www.ctia. Com. CN) warning and calling on everyone not to be deceived. But in the following years, tungsten online still saw reports and related events about "tungsten gold" fraud.

Through Baidu, Zhihu, headlines and other social media and search engine queries, I continue to find that similar situations still occur. Many people still use various network tools to publish, disseminate and sell the so-called tungsten gold, while others are constantly cheated. The author believes that the following aspects need to be paid attention to in order to prevent being deceived.

First, there is no such thing as "tungsten gold" in the world. Any object called "tungsten gold" is deceptive. Don't believe it. In real life, some people do call some gold "black gold". In fact, this is just to call gold with special color "black gold"; Therefore, "black gold" is real gold; "Tungsten gold" is not gold, and there is no "tungsten gold";

Second, tungsten is a kind of heavy metal and refractory metal. As China has millions of tons of reserves, it is not a rare metal for China. It is just a special metal with heavy weight, high strength, high hardness, strong acid-base resistance and high melting point. Therefore, tungsten and its various products are not rare and precious. The annual output of tungsten in a small and medium-sized smelter is thousands of tons, which is more than the overall gold increment of our country.

Third, although the theoretical density of tungsten is very high, it can reach more than 19 grams per cubic centimeter; But in real life, the density of metal tungsten we can contact is smaller than that of gold, so we can know whether it is gold or metal tungsten through a simple density test.

Fourth, the hardness of gold is very small and the material is soft, so our common test method is to bite it with your teeth. Gold can bite and make tooth marks; Tungsten is the hardest element in nature except diamond / diamond. It is often used to make cemented carbide drill tools, so you will know whether you can bite or not. Even if you have steel mouth and iron teeth, you will break your teeth and bleed blood if you try metal tungsten!

Fifth, the melting point of metal tungsten is very high, which is often used as the base material of sapphire long crystal furnace, so there will be no deformation of

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传真/FAX：0086 592 512 9797
邮箱/Emailsales@chinatungsten.com

metal tungsten above 1400 ℃, and the melting point of gold is very low. Therefore, when you encounter such a situation, you should know whether it is true or false as long as you burn it on the fire.

Sixth, metal tungsten is resistant to strong acid and alkali, and will hardly react to any chemicals. Put it into sulfuric acid, hydrochloric acid, acetic acid and other liquids. If it "doesn't change its color" after taking it out, it is metal tungsten, but gold will soon be corroded into liquid.

Seventh, many people claim that the tungsten gold they hold is high-grade goods produced by Russia. In fact, since China introduced the tungsten product production technology of the former Soviet Union and built cemented carbide enterprises such as 601, 603 and 764 in the 1950s, our Tungsten smelting and processing technology has been increasingly refined and developed. At present, it is far superior to the tungsten product production and processing technology of Russia. Therefore, even the metal tungsten in Russia is less pure and dense than that in China, It won't be more expensive.

Eighth, in many scams, the inspection materials issued by a certain domestic authority will be issued to prove its excellent quality, but please pay attention to several points, that is, no matter how high the content of tungsten (W) is, it is still metallic tungsten, which can only be priced by metallic tungsten. Moreover, high-purity tungsten products generally refer to high-purity tungsten chemicals or high-purity tungsten powder, rather than metallic tungsten. Moreover, any metallic tungsten inspection report will not contain gold (AU), Even if the composition of gold appears, it only represents the tested samples, not necessarily the things in your hands, so don't confuse their differences. All inspection institutions are only responsible for the tested samples, not the untested products. Remember this.

Ninth, at present, the metal tungsten powder on the market is about 280 yuan per kilogram, and the processed metal tungsten bar is about 300 yuan per kilogram. Unreasonable prices beyond the current market are in danger of fraud.

Tenth, the so-called tungsten gold issued by the common deceived person is generally in strip shape, that is, the so-called "tungsten gold bar", which is also a lie made up by the liar in order to become more like gold bar. Metal tungsten bars are generally smelting tungsten steel, that is, steel-making tungsten bars with tungsten content of only a few percentage points, rather than "tungsten gold bars"!

Eleventh, last but not least, many swindlers will cheat on the sale of gold-plated tungsten metal or high specific gravity tungsten alloy as tungsten gold, which is confusing and needs special care. However, the above identification methods can easily distinguish the true from the false.

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The above points can be tested one by one in case of similar fraud. I believe you will not be cheated again. The following is the full text of the article published by the author on the website of China Tungsten Industry Association in 2009. The appendix is for reference only. For the appendix, see China Tungsten online news (http://news.chinatungsten.com) and China Tungsten News (www.ctia.com.cn)

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