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
©CHINATUNGSTEN ONLINE
XIAMEN CHINA, MAR.16,2022
韩斯疆博士
中钨在线® 中钨智造®
中国厦门 2022.03.16
www.ctia.com.cn

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版
www.chinatungsten.com
电话/TEL：0086 592 512 9696/512 9595
传真/FAX：0086 592 512 9797
邮箱/Email:sales@chinatungsten.com

著作版权、法律责任声明

■本文作者对本文所涉及政治、军事事件、人物等持中立态度；所涉及经济概念、事件、现象描述仅为了说明钨制品市场相关性及其影响，理论使用、论证未必正确，亦不代表作者立场。如有错漏及与读者立场不同，敬请理解。

■囿于知识和能力，错漏在所难免；如有发现任何问题，请及时联系，任何斧正无任欢迎。

■除非无法确认，我们都已标明作者及出处，如有侵权烦请告知我们，我们会立即删除并在此表示歉意。

■本文所有信息由中钨在线®/中钨智造®韩斯疆博士及其团队编写。未经中钨在线/中钨智造及韩斯疆博士授权，不得对文件所载内容进行使用、披露、分发或变更。尽管我们努力提供可靠、准确和完整的信息，但我们无法保证此类信息的准确性或完整性，本文作者对任何错误或遗漏不承担任何责任亦没有义务补充、修订或更正文中的任何信息。本文中提供的信息仅供参考，不应被视为投资说明书、购买或出售任何投资的招揽文件、或作为参与任何特定交易策略的推荐。本文也不得用作任何投资决策的依据，或作为道德、法律依据或证据。无论是否已在本文片中明确或隐含地描述，本文不附带任何形式的担保。中钨在线/中钨智造及韩斯疆博士对使用本文相关信息造成的任何利润或损失概不负责。

■本文英文版本由百度自动翻译工具翻译，本网站、中文作者均无法对其准确性负责。

■如有需要我们的中文和/或英文版本，欢迎直接发邮件索取。

©中钨在线科技有限公司
©中钨智造科技有限公司
韩斯疆博士
中钨在线® 中钨智造®
中国厦门 2022.03.16
www.ctia.com.cn

LEGAL LIABILITY STATEMENT

■The author holds a neutral attitude towards the any political events and military issues involved in this paper. The description of the person(s), company(ies) and events involved are only to explain the economic phenomena related to the tungsten product market. The theories and facts may not be correct, nor does it represent the author's position. Please understand and forgive any mistakes, omissions and different positions from the readers.

■Unless it cannot be confirmed, we will indicate the author and source. If there is any infringement, please inform us, and we will delete it immediately and apologize.

■The information contained in this article is compiled & edited by Dr. Hanns and his team from China Tungsten Online (CTOMS). Any further reference, disclosure, distribution or editing is strictly restricted unless authorized by both Dr. Hanns and CTOMS. Although we endeavor to provide reliable, accurate and complete information, there can't be guaranteed that such information is accurate or complete and CTOMS assumes no responsibility for any errors or omissions. CTOMS is not obligated to supplement, amend, or correct any information in it. The information provided in it is for reference only and should not be construed as a prospectus; a solicitation to buy or sell any investment; or any other recommendation to participate in any particular trading strategy. Neither shall it be used as a basis for making any investment decision; or as a moral, liable or legal basis or evidence, nor is it accompanied by any form of guarantee, whether it has been explicitly or implicitly described in. CTOMS is not responsible for any profit or loss associated with using information.

■The English Version of this article is translated from Chinese Version by Baidu.com's automatic translation tool. Neither the website nor the author of the Chinese text can be responsible for its accuracy.

■Any requiring of the Chinese and/or English version of this paper may send us an email for it directly.

DR. HANNS
©CHINATUNGSTEN ONLINE
XIAMEN CHINA, MAR.16,2022
www.ctia.com.cm
ceo@tungsten.com.cn

Copyright© 2021 All Rights Reserved

COPYRIGHT

■This article only briefly describes the theory and market factors, holds a neutral view on market and price changes, and is not responsible for any or misleading to the market.
■This article was originally created by China Tungsten Online (中钨在线®).Mistakes and omissions are inevitable. If you find anything, please don't hesitate to contact us at any time.
■There's any reference or excerpt of any copyrighted information in this article, please make a statement or claim, and the author will correct it immediately.
■All rights reserved by China Tungsten Online (CTOMS)
■Any use of any content and form must be authorized in writing by Dr. Hanns.
■For more detailed market information, data and analysis, please contact the author directly through email at sales@chinatungsten.com.

DR. HANNS
©CHINATUNGSTEN ONLINE
XIAMEN CHINA, MAR.16,2022
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。

自 2000 年起中钨在线以 www.ctia.com.cn 为基础创建了超过 100 万个钨、钼、稀土新闻、价格、市场调查分析的网页；2013 年以来，以“中钨在线”为名的公司微信公众号制作了近 20000 条微信信息送达近五万名订阅者，该公众号已成为公认的全球最权威、最全面的钨钼行业、产品价格与市场中英文即时信息源。中钨在线的网站和微信获得了在业界首屈一指的上亿人次的访问量。

中钨在线的主要产品业务是与客户共同完成产程性能、定型、尺寸公差的研发设计和定制，并为客户提供配套的加工、改制、包装、文件和交运等综合集成服务。在过去的 20 年中，中钨在线为全球 10000 多家客户提供了超过 10 万种不同类型的钨、钼和稀土产品研发生产及后续服务；多年的经验和技术积累，也奠定了中钨在线客制化产品的柔性化和智能化制造集成能力和基础。中钨智造科技有限公司，简称“中钨智造”，是中钨在线为推进钨钼材料在工业互联网时代的设计制造集成化、智能化和柔性化而设立的子公司。

中钨在线的专业研究文章和报告由韩斯疆博士、专业分析师郑华小姐及其团队撰写。韩斯疆博士是中钨在线主要的市场和技术研究专家，郑华小姐是中钨在线的社交媒体主管。韩博士自 1990 年代初期开始从事钨钼制品的电子商务和国际贸易、硬质合金和高比重钨合金的生产制造，是有着 30 年多年经验，业内知名钨钼制品的电子商务、钨制品设计、加工和市场研究专家。郑小姐数年来一直来致力于钨制品市场的研究和社交媒体建设与推广，对钨制品市场与价格有极强的专业细腻和敏感性。

©厦门中钨在线科技有限公司
©厦门中钨智造科技有限公司
韩斯疆博士 ceo@tungsten.com.cn
中钨在线® 中钨智造® www.ctia.com.cn
中国 厦门

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.

DR. HANNS
©CHINATUNGSTEN ONLINE
XIAMEN CHINA, MAR.16,2022
www.ctia.com.cm
ceo@tungsten.com.cn

Copyright© 2021 All Rights Reserved

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

PART III OF X

The Price Trend of Tungsten Under the Background of the Russia-Ukraine Conflict

In the PART I of this paper, we introduce all aspects of the military use of tungsten products as an important strategic material under the background of the conflict between Russia and Ukraine, and then clarify the importance of tungsten products under the situation of regional tension and cloudy war; In the second part, we use the tungsten resources of the former Soviet Union and Russia in recent years, the mining situation this year, the general situation of tungsten products processing industry and its main processing enterprises, and the import and export policies. At the same time, we summarize China's tungsten resources and its historical relationship with Russia's tungsten industry; Roughly describe the impact of the spillover effect of the conflict between Russia and Ukraine on the two aspects of tungsten products, that is, (1) Russia will strictly restrict its export of tungsten products to meet its military needs; (2) Russia may try its best to purchase tungsten products in the international market to meet the domestic demand for tungsten resources as raw materials and tungsten products as processing tools; (3) The Russian Ukrainian conflict is bound to accelerate the global consumption of tungsten products and urge countries to accelerate and increase the reserves of military equipment, weapons and ammunition. The demand for tungsten products in non-traditional fields will increase significantly, unless the Russian Ukrainian conflict is a serious contraction or continuous recession of the world economy.

Just as any war will bring drastic geopolitical changes and greatly change the production and life of local people, the real impact of the Russian Ukrainian conflict on the world and the impact on various commodity markets is also comprehensive and far-reaching, far from tungsten products; Factors such as supply interruption, material shortage, price rise and increased demand caused by war and conflict may also further raise the production cost and price of tungsten products.

Therefore, in the third part of this paper, we mainly analyze the future market trend and price of tungsten products from the perspective of inflation affecting the cost and price of tungsten products.

Copyright© 2021 All Rights Reserved

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



Tungsten Carbide Warhead Parts

1. Basic Logic of Tungsten Price Rising in 2022

According to our analysis, under the current situation, the so-called price rise of tungsten products has three meanings:

(1) the price rise caused by supply shortage. As mentioned earlier, due to the increased demand for tungsten products caused by the Russian Ukrainian conflict itself and the temporary shortage caused by global supply, the rise of this nature may be after the Russian Ukrainian conflict eases and the strategic reserve and combat needs are met, the price of tungsten resources will return to a more normal level, which is determined by the normal market price mechanism;

(2) The continuous and irreversible rise in the price of tungsten products due to inflation caused by excessive currency in Europe, America and other countries has been seen with our own eyes since July 2021. Although it has decreased, it is really difficult to reverse or return to the past;

(3) The rise of market price caused by the direct and indirect production cost price rise of energy and power, auxiliary materials and human resources caused by inflation or supply shortage is the most real and irreversible, because it directly raises the profit and loss critical point of production enterprises. After such price rise, it will basically remain above the existing level, otherwise enterprises will stop production and sell at a low price.

Copyright© 2021 All Rights Reserved



In 2021, the price of tungsten products has increased by about 20% from June to September

First of all, among the above three factors affecting the price of tungsten products, the imbalance between supply and demand of tungsten products caused by the conflict between Russia and Ukraine is certain to increase demand in the short term, and what has happened and will be determined. Moreover, this increase in demand is rigid and does not make a rational choice based on the market price. Even if the price of tungsten products reaches or exceeds the historical high in a certain period of time, this kind of demand will not be greatly reduced due to the high price. This point has been preliminarily analyzed and expounded in the previous part of this paper.

Second, the inflation in the United States and affecting the whole world driven by the excess currency of the United States has occurred, and its follow-up effects and aftershocks will last for a long time, driving almost all price increases, thus promoting almost all factors in the production cost composition of tungsten products to rise and promoting their prices to rise simultaneously. In the third part of this paper, we will examine the impact on tungsten products from the perspective of inflation and price rise.

Third, according to the statistical data over the years and the geographical distribution of tungsten products, 80% of the world's tungsten products are produced and processed by China and provided to the world. Therefore, China's production and processing costs and prices can fully reflect the global price of tungsten products, and change its cost composition and price basis from the source side. Therefore, it is reasonable and logical for us to investigate the macro political and economic environment and the fluctuation of price components at the micro level in the supply and demand market relationship of China's tungsten products, and comprehensively consider the basic trend of tungsten product prices in 2022. We will demonstrate and explain this part in detail in the fourth part and subsequent contents of this paper.

Copyright© 2021 All Rights Reserved



Price change curve of tungsten products in China market from 2016 to 2021

2. Tight Commodity Supply Caused by the Russia-Ukraine Conflict

2.1 Resource and Industrial Advantages of Russia

As the world's largest country, Russia spans Europe and Asia, faces the Americas across the Bering Strait in the northeast, and surrounds the Arctic in the north. The resource value of the vast land is naturally immeasurable. It can be seen only from the recent turmoil in the global commodity market. Russia is engaged in energy materials such as natural gas, oil and coal, metal resources such as steel, tungsten, rare earth, aluminum, copper, nickel and palladium, as well as wheat Corn, rapeseed and other food crops have strong resource strength and status that are difficult to be replaced in the world. Therefore, under the conflict between Russia and Ukraine, these commodities will undoubtedly be greatly impacted, and their prices will fluctuate sharply and rise sharply.

We should examine Russia's proven main resources and its world status with simple data as follows: the proven oil reserves are 6.5 billion tons, accounting for 12~13% of the world. Forest coverage area 8 6.7 billion hectares, accounting for 5.0% of the land area 7%, ranking first in the world, with a timber volume of 80.7 billion cubic meters. The proven reserves of natural gas are 48 trillion cubic meters, accounting for more than 1/3 of the world and ranking first in the world. Hydraulic resources 4270 cubic kilometers/year, ranking second in the world. Coal reserves are 200 billion tons, ranking second in the world. Aluminum reserves rank second in the world, iron reserves rank first in the world, uranium reserves rank seventh in the world, and gold reserves rank fourth to fifth in the world. China and Russia account for 55% of the world's total mineral exploitation, 28% of natural gas, 26% of diamond, 22% of nickel, 16% of potassium salt, 14% of iron ore, 13% of precious and rare metals, 12% of oil and 12% of coal. Russia is the world's major exporter of resources and the

Copyright© 2021 All Rights Reserved

largest exporter of many resources.



From the left are NASA astronaut Mark van der Hei, Russian astronaut Anton Shkapplerov and Peter Dubrov. Tass reported on March 30 that the Soyuz MS-19 Spacecraft return module of the Russian national space company carrying two Russian astronauts and American astronaut Mark Van Der Hei is scheduled to land in Kazakhstan on the afternoon of the 30th Moscow time. According to NASA, the spacecraft left the international space station at 3:21 EDT on March 30 and landed at 7:28 EDT on March 30. This incident shows Russia's aerospace strength. It also shows that despite the tense relations between the two sides, Russia is still maintaining the safety of Ukrainian nuclear power plants, the natural gas pipeline through Ukraine is still running, and the space cooperation is also carried out according to the plan.

Russia has inherited almost all the industrial characteristics of the former Soviet Union and has a strong industrial foundation. Except for a small number of former Soviet Union member countries such as Ukraine and Hasak, Russia has a sound industrial sector, mainly machinery, steel, metallurgy, oil, natural gas, coal, forest industry and chemical industry, and textile, food, wood and wood processing industries are also relatively developed; The main crops are wheat, barley, oats, corn, rice and beans; The main cash crops are flax, sunflower and sugar beet; Animal husbandry is mainly cattle, sheep and pigs.

The oil and gas exploitation and smelting industry is the largest main source of economic income in Russia. In addition to oil and gas exports accounting for almost 70-80% of the country's GDP, Russia's metallurgical industry is also very developed on the basis of rich metal resources. The reserves and output of iron, aluminum, copper, nickel, diamond and gold and silver rank among the top in the world. Its non-ferrous metal smelting capacity and technology are first-class, and the metallurgical industry accounts for about P3% of the country's GDP. Russia's military industry has the R & D, design and manufacturing capacity of various weapon systems of sea, land, air and space. Although its production and manufacturing capacity has declined in recent years, it is still the world's leading military power and the main weapon supplier of many countries in the world; Russia's aerospace

Copyright© 2021 All Rights Reserved

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

industry is one of the earliest and most competitive industries in the world. Russia has complete aerospace industry planning and regulations, its own sounding station and return space shuttle, mature rocket engine and launch rocket system. According to its "2013-2020 Russian rocket and aerospace industry development plan", around 2020, The proportion of the aerospace industry in its domestic GDP will be increased to about 16%; Since the world's first nuclear power station built by Russia was put into operation in 1954, Russia has accumulated rich experience and technical reserves in uranium resource development, military and civilian utilization, miniaturization and diversification on the basis of its rich uranium resources and mature technology. Therefore, Russia has unique technical advantages in the field of and Industry.



2.2 Precious Metals and Non-ferrous Metals

2.2.1 Gold

Gold is less sensitive to political, military and many non economic factors, which often lead to the devaluation of paper money and the rise of prices. As a precious metal, gold not only has practical industrial applications, but also plays a more important role as a monetary function. As a measure of value, it realizes the functions of circulation, storage, payment, preservation and so on; Compared with paper money, gold has relative internal stability and its purchasing power is relatively stable. In the environment of inflation, the price of gold will rise synchronously, while paper money is affected by the credit and solvency of the issuing country or financial institutions, and creditor countries are in a passive position. In addition, the holders of gold will not be affected by the changes in the international banking system, which is especially important for Russia at present.

For many years, China has been ranked first among the world's gold producers. In 2020,

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版

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

gold production accounted for 11% of the world's total output, about 368 tons. Russia ranked behind China, with an annual output of 331.1 tons of gold in 2020, accounting for the vast majority of gold production in Europe. Russian gold production has been growing steadily since 2010, and at least two-thirds of the gold has been purchased by the Russian government for reserve.

The situation in Russia and Ukraine continued to escalate, and the market risk aversion increased rapidly. As of March 8, the international gold price once reached a high of US $2,078/ounce. On March 8, the international gold price rose again, once rising to a high of US $2078/ounce, with an increase of more than 1% within the day. At the same time, gold prices rose synchronously in China. On March 9, SHFE gold once rose to a high of 420.74 RMB Yuan/g.



The latest data released by the Russian central bank showed that as of February 18 2022, Russia's gold and foreign currency holdings had reached an all-time high of $643.2 billion.

After the conflict between Russia and Ukraine, Russia was comprehensively sanctioned and blocked by the western economic war. The currency was at the forefront of the economic battlefield. The Russian cup was expelled from swift, and the ruble was greatly devalued; Due to the absolute dominance of the West in money and finance, Russia simply went the opposite way and anchored the ruble to gold. The Central Bank of Russia decided to link the ruble with gold from March 28. The purchase price from March 28 to June 30 was 5000 rubles per gram, which was equivalent to 5,000 rubles to one gram of gold. The anchor period was three months, and the ruble directly appreciated by at least 20% compared with the spot exchange market. In combination with previous reports, Putin announced on the 23rd that Russia would use ruble for settlement when supplying natural gas to "unfriendly" countries and regions such as EU Member States. This is actually equivalent to Russia making full use of its gold and oil resources to bind its currency and endorse the ruble. In

Copyright© 2021 All Rights Reserved

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

this way, the effect of sanctions against the United States and Europe will be greatly reduced and it will be difficult for Russia to ride the tiger.

With the joint support of Russian oil, natural gas and gold, the sharp appreciation of the ruble will not only make the oil importing countries in the world have to face the dilemma of ruble shortage, so as to improve the value of the ruble. As a major importer of Russian oil and gas, China is bound to be greatly affected. Therefore, China's CPI will rise significantly in the future.



2.2.2 Nickel

Russia is one of the main producers of nickel, and Russian nickel is the main delivery brand of Shanghai nickel. The escalation of the conflict between Russia and Ukraine has affected its supply and raised the nickel price. According to the preliminary estimate of the United States Geological Survey (USGS), the global nickel ore output will reach 2.7 million metal tons in 2021, of which the output of Russia will reach about 250,000 metal tons, accounting for about 9.3% of the total global output. Russia's nickel is mainly exported to Europe, and some of it flows into China and the United States. The short supply of nickel still exists recently. Whether from the perspective of spot premium or from the production and sales of 300 series stainless steel and new energy vehicles, the demand for nickel is still hot. Therefore, we believe that the situation in Russia and Ukraine may tighten the supply of refined nickel in Europe, and the nickel price will be supported.

Recently, the demon nickel incident of Castle Peak industry and lem, which has attracted worldwide attention, finally led to the suspension of trading between LEM and the previous period. LEM will reopen the futures trading of metal nickel in the near future, and the follow-up development remains to be observed.

Copyright© 2021 All Rights Reserved

As mentioned in the second part above, the China's domestic nickel price has risen sharply and steadily stood above the price of RMB200,000/ton. When this article is revised, that is, on March 29, 2022, the main contract of Shanghai nickel futures in the previous period fell by 7.06% to 217,450.0 yuan/ton. In addition, according to the price of LME, the closing price of Lun nickel on the same day was 31,900.00 usd/mt, and the lowest price in the session was 32,460 usd/Mt

As we all know, the most important final products of tungsten products are tungsten alloy products, military tungsten nickel iron, tungsten nickel copper high-density tungsten alloy, or cemented carbide with metal nickel as bonding phase. A considerable proportion of nickel needs to be used as auxiliary materials. Therefore, the rise of nickel price will directly lead to the rise of alloy price, The problem lies only in the affordability of production enterprises for this part of price rise and the market's acceptance of price rise.



2.2.3 Copper

Russia exports about 700000 tons of copper and copper products annually, mainly to Europe, America and Asia, of which Europe accounts for nearly 35% and China for about 32%. Russia exports more than 60 tons of copper concentrate annually, mainly to Asia and Europe, of which nearly 80% flows into China, and Europe accounts for less than 4%. The sanctions imposed by Europe, America and other countries on Russia may affect the export structure of Russian copper. The copper supply in Europe will face more tension, and the refined copper export to China may increase. However, due to the impact of the war on international logistics and transportation, the supply and price of Chinese copper products may also fluctuate significantly, which will deeply affect the cost and price of industrial products in China, the world factory, In particular, the price of air conditioning and other electrical and electrical appliances with deep reputation and people's livelihood.

The composition of metal copper price to the production cost of tungsten products is

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版

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

similar to that of metal nickel, which is also an important alloy bonding phase. The difference is that copper and tungsten can form tungsten copper alloy materials alone. Whether producing tungsten copper alloy by copper infiltration or powder metallurgy sintering process, it will cause good conductivity, hardness and strength, and become an important switch contact material in modern power and electrical industry, Therefore, tungsten copper alloy will consume at least 30-5% of copper materials. Therefore, copper price will directly become one of the production costs of tungsten copper alloy.

2.2.4 Aluminium and Zinc

Russia is the second largest producer of primary aluminum in the world. In 2021, Russia's aluminum output accounted for about 6% of the global primary aluminum output. In addition, Russia is also the world's largest exporter of aluminum. In 2019, Russia's exports of primary aluminum and aluminum alloy were 1.9 million tons and 840000 tons respectively, accounting for 17.4% and 6.9% of the total global trade volume. If the US aluminum sanctions against Russia are repeated, the global aluminum ingot supply will be affected again in the short term. In addition, the energy shortage in Europe caused by the conflict between Russia and Ukraine may lead to the risk of production reduction and shutdown of European smelters, Aluminum and zinc with high power consumption will have a great impact, and the price may be pushed up.



Various types of aluminum products

What cannot be ignored and determined is that, as a major producer and consumer of aluminum, on the one hand, China is firmly pursuing the goal of green production and carbon neutralization, and has taken extremely strict production restriction measures to control air pollution, which will tighten the supply of steel, aluminum and other metals produced in China and significantly increase the environmental protection cost. At the same time, as China's national income is close to aquatic products in moderately developed

Copyright© 2021 All Rights Reserved

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

countries and the urbanization has reached more than 65%, it is very important for steel Basic consumption such as aluminum and copper will not only increase significantly, but also produce a siphon effect, making global prices rise due to increased demand.

2.3 Pressure of Russia-Ukraine Conflict on Global Eenergy Supply

2.3.1 Huge Impact of Russia-Ukraine Conflict on Energy Prices

The three most important crude oil producing countries in the world are the United States, Russia and Saudi Arabia. Russia is a member of OPEC +. Russia's crude oil production is about 11 million barrels / day, accounting for about 11% of the global crude oil production. At the same time, about 40% of Europe's natural gas imports came from Russia. The outbreak of the Russian Ukrainian war led to a sharp rise in the prices of crude oil and natural gas. Brent crude oil contract in April exceeded US $100 / barrel, up more than 6%, and European natural gas TTF rose more than 30%. Geopolitical premium pushed up the prices of crude oil and natural gas. It is expected that the strength of short-term energy prices will continue.



Oil exploitation

As a major energy country in the world, Russia's supply chain of energy materials such as crude oil, natural gas and coal faces the risk of interruption, which will aggravate the pressure of global inflation and the cost pressure of raw and auxiliary materials, and increase the production costs of energy and labor of tungsten smelting enterprises. At the same time, the slowdown of manufacturing production and consumption caused by insufficient power may also reduce the demand for tungsten products such as alloys in traditional industrial fields. Taking natural gas, which accounts for 24.7% of global energy consumption, as an example, Russia has the world's richest natural gas resources and is also the world's largest natural gas exporter. By the end of 2021, Russia has proved 37.4 trillion cubic meters of natural gas reserves, accounting for 19.88% of the global total (188.1 trillion cubic meters).

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版

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



Nord Stream No.2 natural gas pipeline route

The escalation of contradictions between Russia and Ukraine will undoubtedly exacerbate the global energy crisis, and the EU countries will bear the brunt. EU countries rely on imports for 30% of their natural gas demand, and Russia for 40% of their imports. After Russia sent troops to Ukraine, the "Nord Stream 2" project was suspended by EU Member States, which made the energy problems that EU countries have been deeply involved in since last year even worse. The goal of "Beixi II" is to deliver 55 billion cubic meters of natural gas to EU countries every year through the Baltic Sea and Germany. Since the beginning of construction, the project has been frequently sanctioned by the United States on the grounds of "threatening Europe's energy security". At present, although it has been completed, it still needs German approval and certification to be officially put into operation.

At present, Iran (32.1 trillion cubic meters) with the world's second-largest natural gas reserves is deeply involved in nuclear weapons disputes. Third, Qatar (24.7 trillion cubic meters) has publicly indicated that it is unable to meet all natural gas needs in Europe alone. Fourth, Turkmenistan (13.6 trillion cubic meters) needs to export to Europe through Russian energy pipeline network. Fifth, the United States (12.6 trillion cubic meters), with energy storage and production capacity up to standard, the transportation cost is more expensive, but the wool comes from the sheep! Since the outbreak, the shale oil industry in the United States has suffered heavy losses due to low oil prices or even negative oil prices, because shale oil will only profit if the oil price is higher than 60 yuan per barrel. Therefore, the Russian Ukrainian war not only hit the export of Russian oil, but also made European countries fear the use of Russian oil and natural gas, and then turned to the United States. Therefore, it is worth your careful study on the causes and consequences of this war, both in front of and behind the scenes. In addition to natural gas, Russia is also an important oil

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版

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

and coal producer and exporter in the world, providing nearly 30% of the crude oil import share and metallurgical coal import share, as well as more than 60% of the power coal import share for EU countries.

Some analysts believe that the crisis of traditional energy shortage will promote the decarbonization process of EU countries and accelerate the development of clean energy and renewable energy. However, at present, it is difficult to make up for the huge economic losses caused by power shortage. European and American countries are clearly aware of this and are trying to avoid imposing direct sanctions on Russian energy exports in order to maintain the stability of the local economy. However, before the situation in Russia and Ukraine really eases, the risk of global economic stagflation caused by energy problems is still serious.

It is worth noting that during the multi-interest tug of war between Europe, America, Russia and Ukraine, the trade relations between China and Russia remain friendly. According to the signed agreement, Russia will supply 100 million tons of oil to China in the next decade, and in the agreement under negotiation, Russia plans to increase its coal export to China to 100 million tons within the year.



Russia, the big power in the world

Of course, Russia is not a small country, and Putin is not a person who has never seen the world. Sanctions are not new to Russia. Since Crimea returned to Russia in 2014 and the conflict in eastern Ukraine began, Russia has been operating effectively under the pressure of continuous Western sanctions.

"In order to maintain financial and price stability and protect citizens' savings from currency devaluation", the Central Bank of Russia significantly raised the benchmark interest rate from 9.5% to 20%! Such interest rates are unimaginable to our Chinese people. Such events in China occurred at the time of the collapse of the national government in the last century,

Copyright© 2021 All Rights Reserved

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

while the last time the Central Bank of Russia significantly raised the benchmark interest rate was at the end of 2014, from 10.5% to 17%. At that time, Russia faced European and American sanctions due to the Crimea problem, and the exchange rate of the ruble against the US dollar fell by more than 70%. The difference is that the ruble trend basically stems from the rise and fall of international oil prices. For example, in the cycle from 2014 to 2016, the international oil price fell from more than 100 US dollars to about 20 US dollars per barrel, and the ruble depreciated from more than 30 rubles to about 85 rubles against the US dollar.

Nowadays, the international oil price is rising rapidly, while the ruble is falling endlessly. It can be seen that the United States has a great impact on the prohibition of Russian oil, natural gas and other energy sources, which account for about 8% of its liquid fuel imports. At the same time, Russia immediately banned the export of some commodities and raw materials. "The energy embargo against Russia marks a major escalation of sanctions imposed by the United States and other countries". After the shale gas revolution in the United States, the main buyers of Russian oil and gas are the European Union and China. Therefore, the rise in energy prices mainly affects import dependent countries and regions such as the European Union and China.

After 2007-2008 and 2011-2014, the international oil price has entered the era of high oil price of more than US $100 per barrel for the third time. Industry experts estimate that the international oil price is close to reaching and operating at a high level for the second time in 2022. Unless the war ends as soon as possible, it is difficult to fall back sharply and judge whether it will jump to another high level.

2.3.2 Importance of Energy Price to China's Tungsten Industry

Each link of tungsten products from mining to smelting needs to consume a lot of energy. Specifically, it mainly includes several technological processes such as tungsten products mining link, hydrometallurgy process, reduction of tungsten powder and tungsten carbide powder, sintering and forging of metal tungsten products, alloy pressing and sintering. Each link includes power, lighting, heat, refrigeration, heating, ventilation, air conditioning, water supply, hydrogen production, elevator, air purification, sewage treatment Transformer and other electrical equipment, line loss and other aspects. Reduction and sintering are high energy consuming processes. Therefore, energy consumption control and energy price are particularly important for China's tungsten products industry.

On February 1, 2016, the Ministry of Industry and Information Technology of the People's Republic of China (MIIT) announced the standard conditions for tungsten industry to promote the transformation, upgrading and sustainable and healthy development of tungsten industry. In terms of comprehensive utilization of resources, the standard conditions put forward that the indicators of "three rates" (mining recovery rate, beneficiation recovery rate and comprehensive utilization rate) for the rational development and utilization of new and reconstructed tungsten resources should meet the

Copyright© 2021 All Rights Reserved

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

minimum index requirements of the Ministry of land and resources:

Main Energy Consumption Indicators of Tungsten Products Required by the Specification Conditions OF the MIIT of China

	Comprehensive Energy Consumption Per MT, Rraw Ore, kg Standard Coal, Max.	Water Recycling Utilization Rat, Max.	Recovery Rate Min.
Opencast mining	1.2	75%	
Pit mining	2.8		
Ton beneficiation treatment	1.7		
APT	0.9	95%	96%
FeW	Power consumption 3000 kwh / T	95%	97%
Sodium Tungstate			90%
Tungsten catalyst	0.8		APT 85%
Treatment waste tungsten			Sodium Tungstate 98%
Zinc melting process	0.85		Tungsten carbide 98%
Electrolysis process	0.85		Tungsten carbide 98.5%
Tungsten powder	0.65		99.5%
Tungsten carbide powder	0.32		99.5%
Cemented carbide			tungsten+Cobalt 98.5%

According to the above requirements, the enterprise's energy-saving and comprehensive resource utilization facilities and operation, photos of main equipment and enterprise resource consumption need to be reported regularly and announced in time for supervision.

Limited Value of Energy Consumption Per Unit Product of Existing Tungsten Concentrate

Production process	Wolframite Mining	Scheelite Mining
Unit consumption / (kgce / T) max.	3.20	1.85
Unit consumption of beneficiation max.	650.00	1790.00
Comprehensive energy unit consumption of standard W concentrate / (kgce / T) max.	1470.00	2100.00

According to the National Standard of the People's Republic of China GB 31340-2014

Admittance Value of Energy Consumption Per Unit Product of New Tungsten Concentrate

Production process	Wolframite Mining	Scheelite Mining
Unit consumption / (kgce / T) max.	2.42	1.04
Unit consumption of beneficiation max.	326.00	1538.00
Comprehensive energy unit consumption of standard W concentrate / (kgce / T) max.	1174.00	1788.00

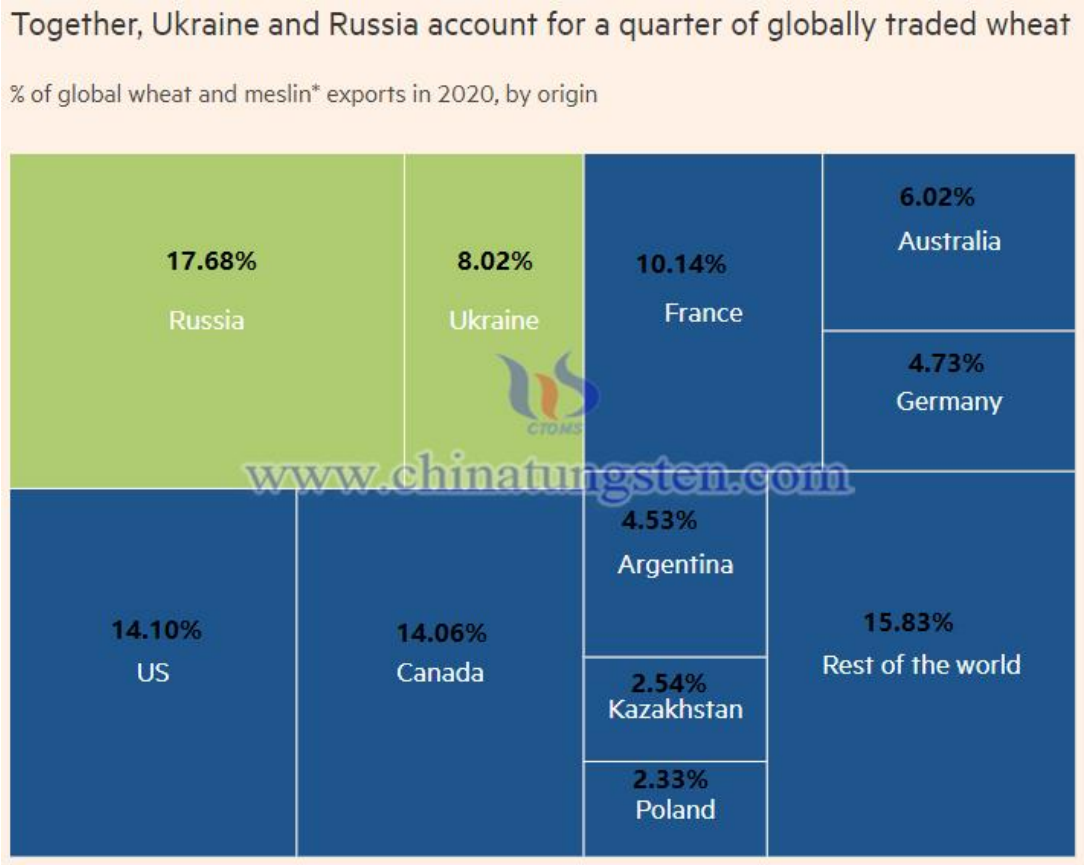
According to the National Standard of the People's Republic of China GB 31340-2014

In addition, taking the national standard of the people's Republic of China gb31340-2014, "the norm of energy consumption per unit products of tungsten concentrates", as an

Copyright© 2021 All Rights Reserved

example, it clearly puts forward a more stringent label. At the same time, from these data, we can also know that the energy consumption in the whole industrial chain of tungsten products in China is a large cost item. Since 2021, The price of power coal in China has more than doubled. At the moment of the conflict between Russia and Ukraine, the soaring energy prices and the rising prices of power generation fuels such as oil and liquefied natural gas are bound to become a huge pressure on the rising cost of tungsten products. And soon transmitted to the market price.

2.4 Rising Global Food and Edible Oil Prices



Russia and Ukraine account for more than 1/4 of the world's wheat transactions (screenshot of FT report, data based on 2020)

Ukraine has always been known as the "European granary". It is also a major exporter of agricultural products in the world with Russia, and the latter is also a major exporter of chemical fertilizer in the world. The conflict between the two countries further pushed up the global food price, which had been pushed to a ten-year high by the epidemic and extreme weather events. The surge of bulk commodities exacerbated the global inflationary pressure, raised the global price level, and indirectly affected the production cost pressure of tungsten products enterprises.

According to the data of the U.S. Department of agriculture, in 2021/2022, the wheat

Copyright© 2021 All Rights Reserved

output of Russia and Ukraine was nearly 110 million tons, accounting for 14% of the total global output; The total export of wheat is 5.96 million tons, accounting for 5.96 million tons of the world's total export. The corn output of the two countries is about 57 million tons, accounting for 4.7% of the total global output; Corn exports 38 million tons, accounting for 18.2% of the total global exports. The output of sunflower seeds, oil and meal in both countries accounts for 50% or more of the world, and the export volume accounts for about 80%. In addition, the output of oats, rye and barley in Russia exceeded 10% of the total global output, and the export volume of rapeseed and barley in Ukraine accounted for 20% and 17.5% of the total global export volume respectively.

John rich, executive chairman of MHP, Ukraine's largest food supplier, said that the conflict between Russia and Ukraine may affect spring sowing, and winter grains, corn and sunflower seeds in 20%-30% of the planting areas can either not be sown or harvested. In addition, FAO estimates that the impact of the sharp decline in the supply of cereals and oilseeds can only be partially compensated by the supply of substitutes. The resulting global supply gap may further affect production costs and drive international food and feed prices up by 8% to 22%.



Mechanized farming

This will not only affect Ukraine's domestic supply, but also affect Ukraine's grain and vegetable oil exports to the world. If the Russian army enters western Ukraine, the food problem will be further exacerbated. According to the latest FAO report, Russia and Ukraine are the world's most important producers of agricultural products and suppliers of chemical fertilizers. Russia is also the world's largest

Copyright© 2021 All Rights Reserved

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

exporter of nitrogen fertilizer and the second largest supplier of potassium and phosphorus fertilizer. Therefore, the conflict between Russia and Ukraine is not only the decline of food production in the two countries, but also the reduction of global food production and increase in prices due to the shortage of chemical fertilizer supply.

According to the FAO report, the global food price index in February 2021 was 140.7 points, an increase of 3.9% month on month and 24.1% year-on-year, a record high. In addition, grain and meat prices rose, with the wheat price index rising by 2.1%, because the situation in Ukraine may hinder the exports of Ukraine and Russia, two major global wheat exporters.

Rabobank had previously predicted that the conflict between Russia and Ukraine could lead to a 30% and 20% rise in global wheat and corn prices respectively, which would be worse after the sanctions of western countries came into effect.



Bread made of wheat is the main food for most people in the world

Russian Prime Minister mishuskin signed a temporary decree on March 14, banning the export of wheat, rye, barley, corn and other grains to Eurasian Economic Union member states before June 30, and suspending the export of white sugar and sucrose to third countries before August 31, so as to ensure the stability of the supply of Russia's domestic grain market. The signing of this decree is actually a declaration to the world that the world granary will be closed in the next six months. This is not only a counter measure to the sanctions imposed on Russia, but also a necessary measure for Russia to protect its own needs.

Copyright© 2021 All Rights Reserved

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

The world population is certain, and people's demand for protein and carbohydrates is physiological. Many wars and conflicts in world history stem from the necessary resources for survival such as food and water. We all know the importance of food. The shortage of food will not only lead to difficulties and turmoil in the Middle East and Africa, but also irreversibly increase the basic price of a large food producing and marketing country such as China and produce a butterfly effect, make all domestic prices rise, and then spread to the world with the extension of its supply chain.



At the beginning of the Spring 2022, Shandong and other major grain producing areas in China began to encourage farmers to return forests to farmland to ensure grain production

In the second half of 2021, China began the policy of "returning forests to farmland", which we thought was incredible. In order to stick to 1.8 billion mu of basic farmland and maintain the self-sufficient rice bowl of the Chinese people, governments at all levels adopted active fiscal policies to promote the construction of high-standard farmland, protect basic farmland infrastructure, protect the black land in Northeast China and other increasingly stringent land policies. These measures show that the Chinese government has prepared for a rainy day, All possible safeguard measures have been taken for food and other important livelihood materials. Recently, Shandong and other major grain producing areas have encouraged and persuaded farmers to cut trees to grow grain in order to ensure spring farming. It can also be seen that China has taken various countermeasures against the future food shortage and price rise.

Copyright© 2021 All Rights Reserved
ISO 9001-2015 认证号码: 00119 q31041r2s/3502
标准文件版本号 CTOXMQCD-MA-E/P 2022 版

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

3. Currency Excess and Inflation in the United States

Since the outbreak of the epidemic, the U.S. currency has been over issued, with a total amount of about $6 trillion, which is used for epidemic prevention, paying wages to low-income people and rescuing their domestic economy. Countries such as Europe and Asia have followed suit and launched loose monetary policies one after another. However, the consequence of excessive currency issuance is a cup of bitter wine. The United States and Europe are reluctant to raise interest rates. Just when they are hesitant with this cup of wine, they wait for the conflict between Russia and Ukraine, which brings great challenges to the United States and Europe to raise interest rates and gradually recover the excessive currency.



In 2022, the interest rate hike of the Federal Reserve to organize a sharp rise in inflation will have a great impact on currencies around the world

After being magnified by commercial banks, the excess currency issued by the Federal Reserve has become the cash currency (M2) in the hands of enterprises and individual residents. The substantial increase of M2 in the short term is not caused by the expansion of production and the increase of social output, but by the virtual increase of currency, which will depreciate relative to existing commodities, and commodity prices will rise accordingly. By purchasing bonds, the Federal Reserve puts money into society. With extremely low interest rates or even negative interest rates, capital will flow to all kinds of assets in countries with high interest rates to pursue profits. In this way, the main circulation and reserve currency of the US dollar will flood the world, causing global inflation.

Since the third quarter of 2020, the disturbance on both sides of supply and demand

Copyright© 2021 All Rights Reserved

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

has made us inflation continue to exceed expectations. Unexpected factors have increased at the beginning of 2022. The crisis in Ukraine and the sanctions imposed by the United States and Europe on Russia have triggered a sharp rise in crude oil and other commodities. In February 2022, the US inflation data reached a 40 year high, and the CPI increased by 7.9%. At the same time, some institutions predict that under extreme circumstances, the US inflation in 2022 may exceed 9% at the highest, reaching the annual extreme value of nearly 10%.

In this case, the Federal Reserve will have to consider raising interest rates by about 2% in the near future to stabilize prices, which will make the dollar flooding the world in the period of inflation return to the United States, thus devaluing currencies and rising prices. On the 17th of this month, the Federal Reserve will hold an interest rate meeting in March. How the Federal Reserve raises interest rates for the first time has become the focus of market debate and attention.

美国 CPI 各分项数据

	同比，季调（%）			环比，季调（%）		
	2022-02	2022-01	2021-12	2022-02	2022-01	2021-12
CPI	7.9	7.5	7.1	0.8	0.6	0.6
核心CPI	6.4	6.0	5.5	0.5	0.6	0.6
能源	25.7	27.0	29.4	3.5	0.9	0.9
食品	7.9	7.0	6.3	1.0	0.9	0.5
食品与饮料	7.6	6.7	6.0	1.0	0.8	0.5
住宅	5.9	5.7	5.1	0.5	0.7	0.5
服装	6.6	5.3	5.7	0.7	1.1	1.1
交通运输	21.1	20.9	21.3	1.9	0.4	1.4
医疗保健	2.4	2.5	2.2	0.2	0.7	0.3
娱乐	4.9	4.8	3.3	0.7	0.9	-0.1
教育与通信	1.6	1.7	1.6	0.0	0.1	0.1
其他商品与服务	5.6	4.9	4.5	1.1	0.8	0.5
信息技术、硬件和服务	2.0	2.1	1.9	1.9	1.9	2.8
个人计算机及其周边设备	4.6	3.5	2.8	2.8	4.8	8.4

数据来源：Wind，东吴证券研究所

2022 US' CPI

According to the data analysis of the past eight interest rate increase cycles of the Federal Reserve, it is not difficult for us to draw a conclusion: in the process of US dollar interest rate increase, the rise probability of commodities related to the strong correlation between zinc, crude oil and coal and the economic cycle is 100%. Copper, aluminum and nickel are also more likely to rise, and the periodic top of these commodities will also appear in the interest rate increase stage. The performance of gold in the interest rate increase cycle is slightly stronger than that of silver; Agricultural products are greatly affected by their own supply, and do not show strong regularity in the stage of interest rate increase; Contrary to our general understanding, the US dollar index has mostly fallen in the seven interest rate hikes in the past 50 years.

In the past two years, the United States and European countries have carried out

Copyright© 2021 All Rights Reserved

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

quantitative easing and printed large amounts of money, while China has adopted an active, steady and even more conservative monetary policy, and has given full play to its advantages in processing capacity and industrial chain under the good situation of complete industrial chain and proper epidemic control. However, under the current situation that countries around the world may move towards monetary tightening, China may do the opposite by increasing the amount of RMB, moderately stimulate the economy and keep China's economy running above the set target of GDP higher than 5.5%. In this case, we not only do not see the depreciation of RMB, but also see the appreciation of RMB, that is, the assets priced in RMB relative to the strong US dollar.

4. Inflation Factors Will be Superimposed to Push up China's Tungsten Price

From the above, we will come to the following conclusion about the supply shortage and price rise of basic commodities such as energy, metals and grain caused by the conflict between Russia and Ukraine, the increase of US dollar interest rate and the trend of RMB exchange rate: (1) The shortage of energy and food will be superimposed with the monetary sequelae caused by the epidemic, which will make the global prices rise continuously, which will eventually be reflected in the costs and prices of various industrial and agricultural products. The global inflation will eventually be quickly reflected in China, the only major producer of tungsten products, The production cost and price rise of various materials in China are also reflected in the cost of tungsten products, which leads to the continuous rise and maintenance of the price of tungsten products at a relatively high level. (2) On the other hand, due to China's comprehensive factors such as good epidemic control, good economic stability, positive and stable monetary policy and social security and stability, the RMB is generally optimistic and more and more popular. The recent sharp appreciation of the RMB relative to the strong US dollar is unprecedented, which will gradually increase the price of tungsten products priced in US dollars exported by China. (3) Even if the dispute between Russia and Ukraine will not cause inflation in China, the strong RMB will also hinder China's export industry, as will the tungsten products industry; At the same time, we must also realize that if the conflict between Russia and Ukraine continues to expand, it is bound to affect the process of global economic recovery, weaken the market demand and consumption prospect of tungsten products industry, and the price will also fall.

Looking at the current political and economic trends and the affordability and resilience of all parties in the game between sanctions and anti sanctions in Europe and the United States, we are optimistic that the conflict between Russia and Ukraine will not last for a long time; At the same time, in this situation, we boldly predict that:

AFTER THE PRICE OF TUNGSTEN IN CHINA RISED 20% IN 2021, THE OVERALL AVERAGE PRICE OF TUNGSTEN WILL STILL RISE BY NO LESS THAN 20% IN 2022.

It's magical to see !

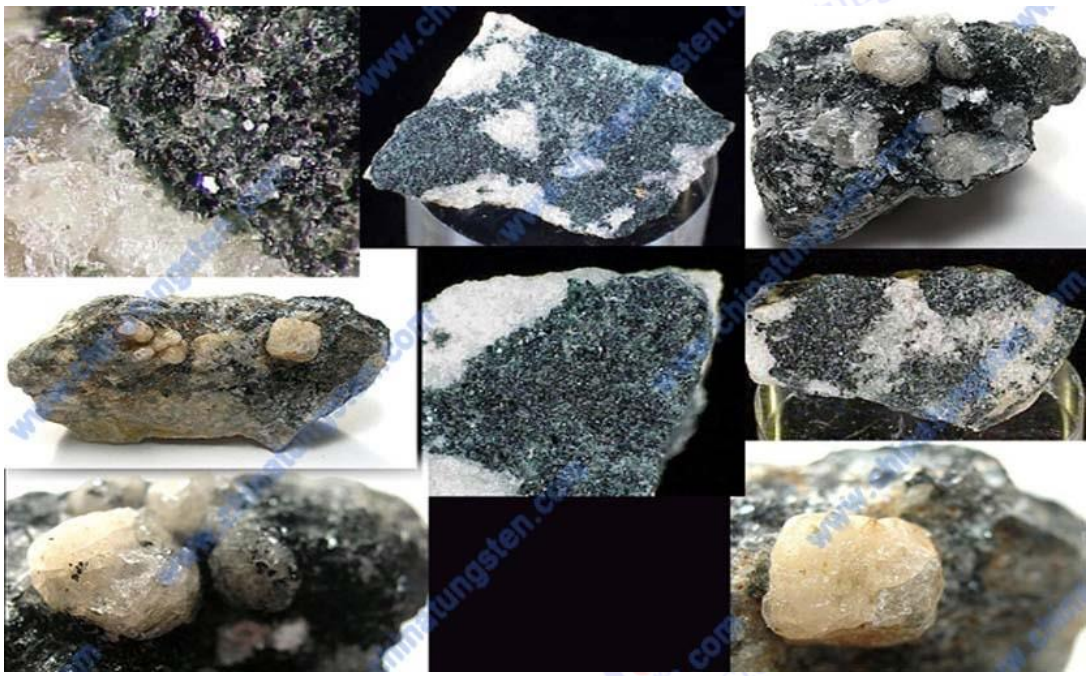
(THE REMAINING PART IV TO X WILL BE CONTINUED)

Copyright© 2021 All Rights Reserved

This article is published on the official account of WeChat on March 20022, and is also listed at www.ctia.com.cn and news.chinatungsten.com.

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 part, 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 this part, we analyze the energy, bulk metals Factors such as the sharp rise in grain prices, the cost pressure on China's tungsten market caused by the over issuance of the US dollar and the US Federal Reserve's interest rate hike, and the possibility of a strong RMB. In the follow-up, we will analyze in detail the market trend of tungsten industry under the background of war and sanctions from the perspective of macro-economy and onlookers' processing costs, and comprehensively analyze the main factors and possibilities of the rise and fall of tungsten product prices in 2022; At the same time, we will also discuss the feasibility and risk of China's tungsten products futures; Since it is related to Russia, finally, we will briefly analyze the suspected fraud such as the so-called sky high price Russian tungsten gold bars that have appeared from time to time in the past few decades.



Copyright© 2021 All Rights Reserved

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