

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Andorra	Refinery	Ordino	L’Orfebre, S.A.
Australia	Refinery	Sydney, New South Wales	ABC Refinery (Australia) Pty (Pallion Group Pty Ltd.)
Australia	Refinery	Roxby Downs, South Australia	BHP Group Ltd.
Australia	Refinery	Melbourne, Victoria	CPG Group
Australia	Refinery	Perth, Western Australia	The Perth Mint owned and operated by the Gold Corp. (wholly-owned by the Government of Western Australia)
Austria	Refinery	Vienna	Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH (Umicore S.A. Business Unit Precious Metals Refining)

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Country	Plant Type	Location	Operator and Ownership
Belgium	Refinery	Hoboken, Antwerp, Flanders	Umicore S.A. Business Unit Precious Metals Refining
Brazil	Refinery	Santa Cruz, Rio de Janeiro	AngloGold Ashanti Córrego do Sítio Mineração
Brazil	Refinery	Nova Lima, Minas Gerais	AngloGold Ashanti Mineração
Brazil	Refinery	Santa Cruz, Rio de Janeiro	Casa da Moeda do Brasil (Brazil Mint)
Brazil	Refinery	Belém, Pará State	North Star Refino S.A.
Brazil	Refinery	Guarulhos, São Paulo	Umicore Brasil Ltda.

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Country	Plant Type	Location	Operator and Ownership
Canada	Refinery	Brampton, Ontario	Asahi Refining Canada Ltd. (ARE Holdings, Inc.)
Canada	Refinery	Montréal, Québec	CCR Refinery - Glencore Canada Corp.
Canada	Refinery	Ottawa, Ontario	Royal Canadian Mint
Central African Republic	Refinery	Bangui	Fonderie Sawa Sawa
Central African Republic	Refinery	Bangui	Société Aurelia SARL
Central African Republic	Refinery	Bangui	Société Fonderie D'or Gongu

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Central African Republic	Refinery	Bangui	Société Fonderie Kotto
Central African Republic	Refinery	Bangui	Société IBIGOLD SARL (IBIGOLD Fonderie)
Chile	Refinery	Mejillones, Antofagasta	Planta Recuperadora de Metales SpA (LS-Nikko Copper Inc., 66%, and Corporación Nacional del Cobre de Chile, 34%)
China	Refinery	Xinzhuang Town, Zhaoyuan City, Shandong	China Mining Gold Industry Co. Ltd.
China	Refinery	Dongcheng, Beijing	China National Gold Group Gold Jewellery Co. Ltd. (China National Gold Group Co. Ltd., 100%)
China	Refinery	Huadian, Jilin	China National Gold Group Jiapigou Mining Co. Ltd.

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Xialu, Huangshi, Hubei	Daye Nonferrous Metals Group Holdings Co., Ltd. [China Nonferrous Metal Mining (Group) Co. Ltd., 57.99%]
China	Refinery	Loufeng North, Suzhou, Jiangsu	Dongwu Gold Group Co., Ltd. (Suzhou Investment Co. Ltd.)
China	Refinery	Heshang Town, Changle District, Fuzhou, Fujian	Fujian Jinyu Deshang Refining Technology Co. Ltd.
China	Refinery	Wenjiang, Chengdu, Sichuan	Great Wall Precious Metals Co. Ltd. [under China Banknote Printing and Minting Corp.]
China	Refinery	Hetai, Gaoyao, Guangdong	Guangdong Jinding Gold Co. Ltd.
China	Refinery	Jiyuan, Henan	Henan Yuguang Gold & Lead Co. Ltd.

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Sanmenxia, Henan	Henan Zhongyuan Gold Smelter Co. Ltd.
China	Refinery	Fanling, New Territories, Hong Kong	Heraeus Ltd.
China	Refinery	Huadian, Jilin	Huadian Gold Co. Ltd.
China	Refinery	Huaihua, Hunan	Hunan Chenzhou Mining Co., Ltd. (Hunan Gold Corp. Ltd., 100%)
China	Refinery	Hohhot, Inner Mongolia	Inner Mongolia Qiankun Gold and Silver Refining LLC
China	Refinery	Guixi City, Jiangxi	Jiangxi Copper Co., Ltd.

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Jinchuan, Jinchang, Gansu	Jinchuan Group Co. Ltd.
China	Refinery	Lingbao City, Henan	Lingbao Gold Group Co. Ltd. (Shenzhen Jiesi Weiye Holding Co. Ltd., 38%, and others, 62%)
China	Refinery	Lingbao, Sanmenxia, Henan	Lingbao Jinyuan Mining Co., Ltd. Tonhui Refining Branch
China	Refinery	Luoyang, Henan	Luoyang Zijin Yinhui Gold Smelting Co. Ltd.
China	Refinery	Suzhou Industrial Park, Wuzhong, Suzhou, Jiangsu	Metalor Precious Metals (Suzhou) Co. Ltd.
China	Refinery	Yuen Long, New Territories, Hong Kong	Metalor Precious Metals Hong Kong Ltd.

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Sanmenxia, Henan	Sanmenxia Jinqu Group Co. Ltd.
China	Refinery	Huyi, Xi'an, Shaanxi	Shaanxi Gold Group Xi'an Qinjin Co., Ltd.
China	Refinery	Longbu Village, Jincheng, Laizhou Shandong	Shandong Gold Smelting Co. Ltd. (Shandong Gold Mining Co. Ltd., 100%)
China	Refinery	Shuidao, Muping, Yantai, Shandong	Shandong Humon Smelting Co. Ltd. (Jiangxi Copper Co. Ltd., 44.48%, and others, 55.52%)
China	Refinery	Zhaoyuan, Shandong	Shandong Zhaojin Gold & Silver Refinery Co. Ltd. (Shandong Zhaojin Group Co. Ltd., 100%)
China	Refinery	Linglong, Zhaoyuan, Shandong	Shandong Zhaojin Gold & Silver Refinery Co., Ltd. (Shandong Zhaojin Group Co., Ltd.)

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Huangshengfa Industrial Zone, Xikeng Village, Longgang, Shenzhen, Guangdong	Shenzhen Cuilu Gold Refinery Co., Ltd.
China	Refinery	Bao'An District, Shenzhen, Guangdong	Shenzhen Dianjin Precious Metal Refining Co. Ltd.
China	Refinery	Shiyan Town, Bao'an, Shenzhen City, Guangdong	Shenzhen Point Gold Refining Co., Ltd.
China	Refinery	Longgang, Shenzhen, Guangdong	Shenzhen Yuexin Precious Metals Co. Ltd.
China	Refinery	Science and Technology Park, Longhua New District, Shenzhen, Guangdong	Shenzhen Zhonghenglong Industrial Co. Ltd.
China	Refinery	Longtan Industrial Park, Chenghua, Chengdu	Sichuan Tianze Precious Metals Co., Ltd.

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Tongling, Anhui	Tongling Nonferrous Metals Group Co. Ltd.
China	Refinery	Urumqi Economic and Technological Development Zone, Urumqi, Xinjiang	Urumqi Tianshanxing Precious Metal Smelting Co., Ltd. (Xinjiang Xinxin Mining Industry Co. Ltd.)
China	Refinery	Shifo, Yanggu, Shandong	Yanggu Xiangguang Copper Co., Ltd.
China	Refinery	Zhaoyuan, Shandong	Yantai Guoda Precious Metal Smelting Co. Ltd.
China	Refinery	Penglai, Yantai, Shandong	Yantai Penggang Gold Industry Co., Ltd. (Baiyi Gold Co. Ltd., 100%)
China	Refinery	Panlong, Kunming, Yunnan	Yunnan Copper Industry (Group) Co., Ltd. (Yunnan Copper (Group) Co., Ltd.)

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Country	Plant Type	Location	Operator and Ownership
China	Refinery	Anning, Kunming, Yunnan	Yunnan Dianjin Investment Co., Ltd.
China	Refinery	Guandu, Kunming, Yunnan	Yunnan Gold Mining Group Co., Ltd.
China	Refinery	Kunming National Hi-Tech Technology Industrial Development Zone, Wuhua, Kunming, Yunnan	Yunnan Precious Metals New Materials Holding Group Co. Ltd. (Sino-Platinum Metals Co. Ltd., 100%)
China	Refinery	Fuyang, Hangzhou, Zhejiang	Zhejiang Fuye Group Co. Ltd.
China	Refinery	Tianyuan, Zhuzhou, Hunan	Zhuzhou Smelting Group Co. Ltd.
China	Refinery	Lincheng Town, Shanghang, Fujian	Zijin Mining Group Gold Smelting Co., Ltd. (Zijin Mining Group Co., Ltd.)

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Country	Plant Type	Location	Operator and Ownership
Czechia	Refinery	Vestec, Harare	SAFINA A.S.
Finland	Smelter	Harjavalta	Boliden Harjavalta Oy (Boliden Mineral AB)
France	Refinery	Paris, Ile-de-France	SAAMP Groupe SAS
Germany	Refinery	Pforzheim, Baden-Württemberg	Agosi AG
Germany	Refinery	Hamburg	Aurubis AG
Germany	Refinery	Pforzheim, Baden-Württemberg	C. Hafner GmbH + Co. KG

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Country	Plant Type	Location	Operator and Ownership
Germany	Refinery	Pforzheim, Baden-Württemberg	DODUCO GmbH
Germany	Refinery	Pforzheim, Deutschland	Heimerle + Meule GmbH
Germany	Refinery	Pforzheim, Baden-Wurttemberg	Heimerle + Meule GmbH (HM Precious Metals)
Germany	Refinery	Hanau, Hesse	Heraeus Deutschland GmbH & Co. KG
Germany	Refinery	Halsbrücke, Saxony	SAXONIA Edelmetalle GmbH (Saxonia Group, 100%)
Germany	Refinery	Pforzheim, Baden-Württemberg	SAXONIA Edelmetalle GmbH (Saxonia Group, 100%)

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Country	Plant Type	Location	Operator and Ownership
Ghana	Refinery	Accra, Ghana	Gold Coast Refinery Ltd.
Ghana	Refinery	Accra, Ghana	Goldridge Refinery Ltd.
Ghana	Refinery	Accra, Ghana	M&C Gold and Precious Metals Refinery
Ghana	Refinery	Accra, Ghana	Mentrax Refinery Ltd.
Ghana	Refinery	Accra, Ghana	Royal Ghana Gold Ltd. (joint venture between the Precious Minerals Marketing Co. and Rosy Royal Ltd.)
Ghana	Refinery	Accra, Ghana	Sahara Royal Gold Refinery Ltd.

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Rudrapur, Uttarakhand	ABANS Jewels Pvt. Ltd. (ABANS Group.)
India	Refinery	Gurgaon, Haryana	Agnis Bullion House LLP
India	Refinery	Hamirpur, Himachal Pradesh	AJ Refinery Pvt. Ltd.
India	Refinery	Thane, Maharashtra	Altim Metals Pvt. Ltd. (Dindayal Group)
India	Refinery	Thane, Maharashtra	Augmont Enterprises Pvt. Ltd.
India	Refinery	Bangalore, Karnataka	Bangalore Refinery Pvt. Ltd.

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Udham Singh Nagar, Uttarakhand	Bright Metal Refiners
India	Refinery	Aluva, Ernakulam District, Kerala	CGR Metalloys Pvt. Ltd.
India	Refinery	Udham Singh Nagar, Uttarakhand	Diamond Forever International
India	Refinery	Coimbatore, Tamil Nadu	Emerald Jewel Industry India Ltd.
India	Refinery	Ahmedabad, Gujarat	Gujarat Gold Centre (GGC) Pvt Ltd.
India	Refinery	Sanand, Ahmedabad, Gujarat	Hindustan Gold Industries Pvt. Ltd.

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Mumbai, Maharashtra	Hindustan Platinum Pvt. Ltd.
India	Refinery	Telangana, Hyderabad	Indian Government Mint
India	Refinery	Mumbai, Maharashtra	Indian Government Mint (unit of Security of Printing and Mining Corporation India Ltd.)
India	Refinery	Chandi Chowk, New Delhi	Jalan and Company
India	Refinery	Rudrapur, Udham Singh Nagar, Uttarakhand	Khandwala Finstock Pvt. Ltd
India	Refinery	Haridwar, Uttarakhand	Kundan Care Products Ltd.

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Gurugram, Gurgaon, Haryana	Kundan Refinery Pvt. Ltd.
India	Refinery	Thirumudivakkam, Chennai	Lalithaa Jewelry Mart Pvt. Ltd.
India	Refinery	Alwar, Rajasthan	M.D. Overseas Pvt. Ltd.
India	Refinery	Nuh, Haryana	MMTC-PAMP India PVT Ltd. (joint venture MMTC Ltd. and PAMP SA Switzerland)
India	Refinery	Mumbai, Maharashtra	Narrondass Manordass Precious Metals Refinery
India	Refinery	Mumbai, Maharashtra	National India Bullion Refinery ACA Sons

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Rudrapur, Udham Singh Nagar, Uttarakhand	OMGL Refinery LLP
India	Refinery	Ahmedabad, Gujarat	Parker Precious Metals LLP
India	Refinery	Kannur, Kerala	Quality Assay and Hallmarking Centre Pvt. Ltd
India	Refinery	Rudrapur, Uttarakhand	Rajesh Exports Ltd.
India	Refinery	Rudrapur, Udham Singh Nagar, Uttarakhand	RG Refineries Pvt. Ltd.
India	Refinery	Shirpur city, Dhule, Maharashtra	Shirpur Gold Refinery Ltd. (Zee Gold DMCC of Dubai)

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Country	Plant Type	Location	Operator and Ownership
India	Refinery	Ahmedabad, Gujarat	Shree Ambica Touch
India	Refinery	Ahmedabad, Gujarat	Sovereign Metals Ltd.
India	Refinery	Gautam Buddh Nagar, Uttar Pradesh	Tasha Gold Pvt. Ltd.
India	Refinery	Hosur, Tamil Nadu	Titan Company Ltd.
India	Refinery	Ranga Reddy, Telangana, Hyderabad	Yash Oro India Pvt. Ltd.
India	Refinery	Ahmedabad, Gujarat	Zaveri & Co. Pvt. Ltd.

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Country	Plant Type	Location	Operator and Ownership
Indonesia	Refinery	Jakarta, Java	PT Aneka Tambang Tbk
Iran	Refinery	Takab, West Azarbaijan	Zarshouran Gold Mine and Mining Industries Development Co. (Iranian Mines & Mining Industries Development & Renovation)
Italy	Refinery	Pero, Lombardia	8853 S.p.A.
Italy	Refinery	Badia Al Pino, Arezzo	Chimet S.p.A.
Italy	Refinery	San Zeno, Arezzo	Italpreziosi S.p.A.
Italy	Refinery	Capolona, Arezzo	Trattamenti Ceneri Auroargentifere S.p.A

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Country	Plant Type	Location	Operator and Ownership
Japan	Refinery	Bando, Ibaraki Prefecture	Asahi Metalfine Inc.
Japan	Refinery	Koriyama, Fukushima	Asaka Riken Co., Ltd.
Japan	Refinery	Ota, Tokyo	Chugai Mining Co. Ltd.
Japan	Refinery	Soka, Saitama	Ishifuku Metal Industry Co., Ltd.
Japan	Refinery	Kita-Ku, Osaka	Japan Mint
Japan	Refinery	Saganoseki, Oita	JX Advanced Metals Corp.

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Country	Plant Type	Location	Operator and Ownership
Japan	Refinery	Sayama, Saitama	Kojima Chemicals Co., Ltd.
Japan	Refinery	Kosaka, Akita	Kosaka Smelting and Refining Co. Ltd. (a subsidiary of Dowa Eco-System Co. Ltd., a part of the Dowa Holding Co. Ltd.)
Japan	Refinery	Iruma, Saitama	Matsuda Sangyo Co., Ltd.
Japan	Refinery	Naoshima, Kagawa	Mitsubishi Materials Corp.
Japan	Refinery	Takehara, Hiroshima	Mitsui Mining and Smelting Co., Ltd.
Japan	Refinery	Noda, Chiba	Nihon Material Co., Ltd.

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Country	Plant Type	Location	Operator and Ownership
Japan	Refinery	Nara city, Nara	Ohura Precious Metal Industry Co., Ltd.
Japan	Refinery	Saijo, Ehime	Sumitomo Metal Mining Co., Ltd.
Japan	Refinery	Hiratsuka City, Kanagawa	Tanaka Precious Metal Technologies Co., Ltd. (Tanaka Precious Metal Group Co., Ltd.)
Japan	Refinery	Kuki, Saitama	Tokuriki Honten Co., Ltd.
Japan	Refinery	Konan, Kochi	Yamakin Co., Ltd.
Japan	Refinery	Sagamihara, Kanagawa	Yokohama Metal Group

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Country	Plant Type	Location	Operator and Ownership
Kazakhstan	Refinery	Balkhash, Karaganda Province	Kazakhmys Smelting LLP
Kazakhstan	Refinery	Ust-Kamenogorsk, East Kazakhstan Province	Kazzinc Ltd. (Glencore plc, 69.7%)
Kazakhstan	Refinery	Astana, Akmola Province	Tau-Ken Altyn LLP (JSC NMC Tau-Ken Samruk)
Kenya	Refinery	Nairobi	Africa Gold Exporters
Kenya	Refinery	Nairobi	AfriSwiss Commodities Trading
Kenya	Refinery	Nairobi	Emirates Refinery Ltd.

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Kenya	Refinery	Nairobi	Tristan Metal K Ltd.
Korea, North	Refinery	Chongju, Pyonganbuk	2.16 (or Chongju) Refinery
Korea, North	Refinery	Hungnam, Hamgyeongnam	July 27th Refinery (Hungnam 2nd refinery)
Korea, North	Refinery	Munchon, Kangwon	Munpyong (Korea Zinc Industrial Group)
Korea, North	Refinery	Mooncheon, Gangwon	September 21st Refinery (Munchon Refinery)
Korea, Republic of	Refinery	Jincheon, Chungbuk	TSK Pretech

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Korea, Republic of	Refinery	Incheon	Daesung Metal Co., Ltd.
Korea, Republic of	Refinery	Gimpo, Gyeonggi	DSC (Do Sung Corp.)
Korea, Republic of	Refinery	Onsan, Ulsan	Korea Zinc Co., Ltd.
Korea, Republic of	Refinery	Onsan, Ulsan	LS MnM Inc.
Korea, Republic of	Refinery	Incheon	LT Metal Ltd. (LT Group)
Korea, Republic of	Refinery	Namdong, Incheon	Samduck Precious Metals Co., Ltd.

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Korea, Republic of	Refinery	Gunsan, Jeollabuk	SungEel HiMetal Co. Ltd.
Korea, Republic of	Refinery	Asan, South Chungcheong	Torecom Corp. (LS MnM Inc.)
Kyrgyzstan	Refinery	Talas Province	Alliance Altyn LLC (OJSC Vostok-Geoldobycha)
Kyrgyzstan	Refinery	Chatkal district, Jalal-Abad region	Eti Bakir JSC, 75% and Kyrgyzaltyn OJSC, 25%.
Kyrgyzstan	Refinery	Karabalta, Karabalta	Kyrgyzaltyn JSC
Lebanon	Refinery and smelter	Bourj Hammud, Beirut	Lebanor s.a.l.

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Mali	Refinery	Bamako	Kankou Moussa Refinery (KMR SA)
Mali	Refinery	Bamako	Marena Gold Refinery (subsidiary of Vemanti Group, Inc.)
Mexico	Refinery	Torreon, Coahuila	Metalúrgica Met-Mex Peñoles, S.A. de C.V.
Mexico	Refinery	Cananea, Sonora	Southern Copper Corp. (Grupo México S.A.B. de C.V.)
Netherlands	Refinery	Moerdijk, North Brabant	REMONDIS PMR B.V.
New Zealand	Refinery	Penrose, Auckland	Morris and Watson Ltd.

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New Zealand	Refinery	Macraes, Otago	OceanaGold Corp.
Nigeria	Refinery	Lagos	Dukia Gold & Precious Metals Refining Co. Ltd.
Oman	Refinery	Sohar Port and Free Zone	Strategic & Precious Metal Processing Co. (DNR Industries Ltd., 33.33%; Oman Investment Fund, 33.33%; Tristar Resources Ltd., 33.33%)
Philippines	Refinery	Quezon City, Manila	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)
Poland	Refinery and smelter	Glogow	KGHM Polska Miedź S.A.
Russia	Refinery	Verkhnyaya Pyshma, Sverdlovskaya Oblast	AO Ekaterinburg Non-Ferrous Metal Processing Plant

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Country	Plant Type	Location	Operator and Ownership
Russia	Refinery	Krasnoye-na-Volge, Kostroma Region	AO Kvart
Russia	Refinery	Novosibirskaya Oblast'	AO Novosibirsk Refinery
Russia	Refinery	Kasimov, Ryazanskaya Oblast'	AO Prioksky Plant of Non-Ferrous Metals
Russia	Refinery	Verkhnyaya Pyshma, Sverdlovskaya Oblast'	AO Uralelectromed
Russia	Refinery	Moscow	Moscow Special Alloys Processing Plant
Russia	Refinery	Krasnoyarsk, Krasnoyarskiy Kray	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Russia	Refinery	Shyolkovo, Moscow Region	SOE Shyolkovsky Factory of Secondary Precious Metals
Russia	Refinery	Chelyabinsk, Chelyabinskaya Oblast'	ZAO Kyshtym Copper-Electrolytic Plant (subsidiary of Russian Copper Co.)
Serbia	Refinery	Majdanpek	JSC Zlatara Majdanpek Gold Refinery
Singapore	Refinery	Boon Lay, West Region, Singapore	Metalor Technologies Singapore Pte. Ltd. (TANAKA Holdings Co. Ltd.)
South Africa	Refinery	Johannesburg, Gauteng	AU Traders and Refiners
South Africa	Refinery	Germiston, Gauteng	Rand Refinery (Pty) Ltd.

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
South Africa	Refinery	Lethabong	Siyanda Refining Services (Pty) Ltd.
Spain	Refinery	Madrid	Metales y Barcelona 2011 S.L.U
Spain	Refinery	Madrid	SEMPSA Joyería Plateria SA (SEMPSA JP)
Sudan	Refinery	Khartoum, Sudan	Sudan Gold Refinery Co. Ltd.
Suriname	Refinery	Wit’ Santi	Kaloti Suriname Mint House (The Government, Kaloti Jewellery Group, and private investors)
Sweden	Smelter	Ronnskar, Skelleftehamn	Boliden Mineral AB

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Taiwan	Refinery	Kaohsiung	Elite Industech Co. LTD.
Taiwan	Refinery	Dayuan, Taoyuan	Singway Technology Co., Ltd.
Taiwan	Refinery	Tainan City	Solar Applied Materials Technology Corp.
Taiwan	Refinery	Guanyin District, Taoyuan	Super Dragon Technology Co. Ltd.
Tajikistan	Refinery	Panjakent City, Sughd Province	JV Zarafshon LLC
Tajikistan	Refinery	Ayni District, Kanchoch	Tajik Aluminum Co. and China’s Tibet Huayu Mining Co.

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Tanzania	Refinery	Geita	Buckreef Gold Co. Ltd.
Tanzania	Refinery	Geita Township	Geita Gold Refinery (GG Refinery Ltd.)
Tanzania	Refinery	Mwanza	Mwanza Precious Metals Refinery Co. Ltd.
Tanzania	Refinery	Kahama	SAB Gold Ltd.
Thailand	Refinery	Dok Mai Prawet, Bangkok	Gold Field Refinery Co. Ltd.
Thailand	Refinery	Dokmai Subdistrict, Pravet District, Bangkok Province	Umicore Precious Metals Thailand Ltd. (Umicore SA)

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Turkey	Refinery	Corum, Anatolia	Ahlatci Metal Rafineri A.S. (Ahlatci Holding)
Turkey	Refinery	Bahçelievler, Istanbul	Garanti Rafineri ve Maden Islemetleri A.Ş.
Turkey	Refinery	Küçükçekmece, Istanbul	Isgold Altin Rafinerisi A.Ş.
Turkey	Refinery	Kuyumcukent, Yenibosna, Istanbul	Istanbul Gold Refinery
Turkey	Refinery	Bahçelievler, Istanbul	Nadir Metal Rafineri San. ve Tic. A.Ş.
Turkey	Refinery	Esenyurt, Istanbul	ONSA Refinery Inc. (Altınbaş Holding)

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Uganda	Refinery	Kampala	Afriswiss Gold Refinery
Uganda	Refinery	Kampala	Bullion Refinery Ltd.
Uganda	Refinery	Kampala	Carvataro Refinery Ltd.
Uganda	Refinery	Kampala	Euro Gold Refinery Ltd.
Uganda	Refinery	Kampala	Icon2 Gold Refinery
United Arab Emirates	Refinery	Al Quoz, Dubai	Al Etihad Gold Refinery DMCC

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country		Plant Type	Location	Operator and Ownership
United Arab Emirates		Refinery	SAIF Zone, Sharjah	Auriz Gold Refinery FZC
United Arab Emirates		Refinery	Jumeriah Lake Towers, Dubai	Emirates Gold DMCC
United Arab Emirates		Refinery	Fujairah Free Zone 2, Fujairah	Fujairah Gold FZC (Vedanta Resources Ltd., 100%)
United Arab Emirates		Refinery	SAIF Zone Sharjah	Gulf Gold Refinery FZE (GGR)
United Arab Emirates		Refinery	Sharjah, Sharjah	International Precious Metal Refiners LLC
United Arab Emirates		Refinery	Jebel Ali DMCC, Dubai	MTM&O Gold Refinery DMCC

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
United Arab Emirates	Refinery	SAIF Zone, Sharjah	Palm Gold Refinery FZE
United Kingdom	Refinery	Beckton, East London	Baird & Co. Ltd.
United Kingdom	Refinery and smelter	Hockley, Birmingham	Stephen Betts & Sons Ltd.
United Kingdom	Refinery	West Bromwich	StoneX Metals Ltd.
United States	Refinery	Warwick, Rhode Island	Advanced Chemical Co.
United States	Refinery	Miami, Florida	Asahi Refining Florida LLC (subsidiary of ARE Holdings, Inc.)

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
United States	Refinery	Salt Lake City, Utah	Asahi Refining USA, Inc. (subsidiary of ARE Holdings, Inc.)
United States	Refinery	Milwaukee, Wisconsin	AURA-II, Inc
United States	Refinery	Cranston, Rhode Island	Gannon & Scott, Inc.
United States	Refinery	Phoenix, Arizona	Gannon & Scott, Inc.
United States	Refinery	Philadelphia, PA	Garfield Refining LLC
United States	Refinery	Warwick, Rhode Island	Geib Refining Inc.

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
United States	Refinery	Hempstead, New York	General Refining Corp.
United States	Refinery	Attleboro, Massachusetts	Glines & Rhodes, Inc.
United States	Refinery	Santa Fe Springs, CA	Heraeus Precious Metals North America LLC / Heraeus Inc.
United States	Refinery	Wartburg, Tennessee	Heraeus Precious Metals North America LLC / Heraeus Inc.
United States	Refinery and smelter	Magna, Utah	Kennecott Utah Copper LLC (a subsidiary of Rio Tinto plc)
United States	Refinery	New York, New York	Manhattan Gold & Silver

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
United States	Refinery	Buffalo, New York	Materion Corp.
United States	Refinery	Greenville, North Carolina	Metallix Refining Inc.
United States	Refinery	North Attleboro, Massachusetts	Metalor USA Refining Corp.
United States	Refinery	Cranston, RI	Noble Metal Services
United States	Refinery	Warwick, Rhode Island	Pease & Curren Inc.
United States	Refinery	East Providence, Rhode Island	QML, Inc.

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
United States	Refinery	Scottsville, New York	Sabin Metal Corp.
United States	Refinery	Fairless Hills, Pennsylvania	Sibanye-Stillwater Reldan (Sibanye-Stillwater Ltd.)
United States	Refinery	Mt. Vernon, New York	Sigmund Cohn Corp.
United States	Refinery	Woodside, NY	So Accurate Group, Inc.
United States	Refinery	Alden, New York	United Precious Metal Refining, Inc.
Uzbekistan	Refinery	Almalyk, Tashkent Province	Almalyk Mining and Metallurgical Complex

4—Identified global producers of gold bullion

Explanation: This list contains refiners of gold bullion (most are accredited to sell bullion on one or more market exchange). Feed material is indeterminate and may be from mines, intermediate refineries, scrap, or other gold-bearing materials. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Uzbekistan	Refinery	Navoi, Navoiy Province	Joint-Stock Company Navoi Mining and Metallurgical Company
Vietnam	Refinery	Lao Cai copper refining factory 2, Ban Qua, BatXat District, Lao Cai Province	Lao Cai Copper Smelting Branch -[VINACOMIN - Minerals Holding Corp. (VIMICO)]
Vietnam	Refinery	Tang Loong Industrial Park, Bao Thang, Lao Cai Province	Lao Cai Copper Smelting Branch -[VINACOMIN - Minerals Holding Corp. (VIMICO)]
Zimbabwe	Refinery	Msasa, Harare	Fidelity Gold Refinery (Pvt) Ltd.

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
Australia	Ta2O5	Greenbushes, Western Australia	Global Advanced Metals Greenbushes Pty Ltd. (Global Advanced Metals Pty Ltd.)
Austria	TaN, TaNbC	Althofen, Carinthia	Treibacher Industrie AG
Brazil	Ta2O5	São João Del Rei, Minas Gerais State	AMG Brasil S.A. [AMG Advanced Metallurgical Group N.V. (Netherlands)]
China	TaAlloys, TaMtl	Dagualing Village, Huangxing Town, Changsha County, Hunan Province	Changsha Nanfang Tantalum and Niobium Co. Ltd.
China	K2TaF7, Ta2O5, TaMtl, TaPwdr	Yaxi Industrial Development Zone, Xinhui, Jiangmen, Guangdong	F&X Electro-Materials Ltd.
China	K2TaF7, Ta2O5,TaAlloys, TaMtl, TaPwdr	Hetang, Zhuzhou, Hunan	FIR Metals & Resource Co. Ltd. (joint venture Yanling Gaoli Rare Metal Materials Co. Ltd. and NIOTAN Ltd.)

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
China	K2TaF7, Ta2O5, TaC, TaMtl, TaPwdr	Yingde, Guangdong	Guangdong Guangsheng Rare Metal Optoelectronic New Materials Co. Ltd. (Guangdong Guangsheng Holding Group Co. Ltd., 100%)
China	K2TaF7, Ta2O5	Songmu Economic Development Zone, Heyang, Hunan	Hengyang King Xing Lifeng New Materials Co., Ltd.
China	K2TaF7, Ta2O5, TaMtl	Jiangning Economic Development Zone, Nanjing, Jiangsu	Jiangsu Metalink Special Alloys Corp.
China	K2TaF7, Ta2O5	Ganken Industrial Park, Fengxin County, Jiangxi	Jiangxi Dinghai Tantalum & Niobium Co., Ltd. (Jiangxi Dinghai Group)
China	K2TaF7, TaC, Ta2O5, TaMtl, TaPwdr	Shishi Industrial Zone, Yifeng County Industrial Park, Fengcheng, Jiangxi	Jiangxi Kingtan Tantalum Co. Ltd.
China	K2TaF7, Ta2O5	Yichun Economic and Technological Development Zone, Yichun, Jiangxi	Jiangxi Tuohong New Material Co., Ltd. (Jiangxi Guotai Group Co., Ltd. 50.99%)

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
China	TaC, TaMtl	Chengdong Industrial Base 3, Xunyang District, Jiujiang City, Jiangxi	Jiujiang Janny New Material Co., Ltd.
China	K2TaF7, Ta2O5, TaC, TaMtl	Jiujiang, Jiangxi	Jiujiang Jinxin Nonferrous Metals Co., Ltd.
China	K2TaF7, Ta2O5, TaC, TaMtl, TaNbC, TaPwdr	East City Development Zone, Xin Gang Town, Jiujiang, Jiangxi	Jiujiang Tanbre Co., Ltd. (formerly Jiujiang Tanbre smelter) (Jiangxi Tungsten Group Ltd. Corp.)
China	K2TaF7, Ta2O5, TaC, TaMtl	Lianxi, Jiujiang, Jiangxi	Jiujiang Zhongao Tantalum & Niobium Co., Ltd. (joint venture Jiangxi Jiujiang Yizhong Nonferrous Metals Co., Ltd., and others)
China	TaAlloys, TaMtl, TaPwdr	Dawukou District, Shizuishan, Ningxia	Ningxia Orient Tantalum Industry Co., Ltd. (OTIC) [China Nonferrous Metal Mining (Group) Co., Ltd. (CNMC, 54.2%); CNMC NingXia Orient Group Co., Ltd. (45.8%)]
China	TaC, TaNbC, TaPwdr	Xiangcheng, Suzhou, Jiangsu	Taike Technology (Suzhou) Co. Ltd.

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
China	K2TaF7, Ta2O5, TaAlloys, Ta ethoxide, TaMtl, TaPwdr	Qiaotou, Yingde, Guangdong	Ximei Resources (Guangdong) Ltd. (Ximei Resources Holding Ltd.)
China	K2TaF7	Ren Village Industrial Park, Xinxing County, Yunfu City, Guangdong	Xinxing Haorong Electronic Material Co., Ltd.
China	Ta2O5	Funing High-tech Industrial Development Zone, Yangcheng, Jiangsu	Yancheng Jinye New Material Technology Co., Ltd.
China	K2TaF7, TaC, TaMtl, TaPwdr, Ta2O5	SME Pioneer Park, Yanling, Zhuzhou, Hunan	Yanling Jincheng Tantalum & Niobium Co., Ltd
China	Ta2O5, TaC, TaMtl, TaPwdr	Sihui, Zhaoqing, Guangdong	Zhaoqing Duoluoshan Sapphire Rare Metal Co. Ltd.
Estonia	Ta2O5, TaCl5, TaMtl,	Sillamae, Ida-Virumaa	NPM Silmet OÜ (Neo Performance Materials, 100%)

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
Germany	K2TaF7, Ta2O5, TaPwdr	Goslar, Lower Saxony	TANIOBIS GmbH (JX Metals Group)
Germany	Ta, TaCl5	Laufenburg, Baden-Württemberg	TANIOBIS Smelting GmbH & Co. KG (JX Metals Group)
India	K2TaF7, Ta2O5	Taloja Industrial Area, District Raigad, Maharashtra	Metallurgical Products India Pvt Ltd.
Japan	TaPwdr	Aizuwakamatsu, Fukushima	Global Advanced Metals Japan K.K. (Global Advanced Metals Pty Ltd.)
Japan	TaC, TaN, TaPwdr, TaSi2,	Akita, Akita Prefecture	Japan New Metals Co., Ltd. (Mitsubishi Materials Corp.)
Japan	Ta2O5, TaC, TaNbC	Omuta, Fukuoka	Mitsui Mining and Smelting Co. Ltd.

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
Japan	Ta2O5	Harima, Kako, Hyogo	Taki Chemical Co., Ltd.
Japan	TaPwdr	Hitachiomiya, Ibaraki	TANIOBIS Japan Co., Ltd. (JX Mining Group)
Kazakhstan	TaAlloy, TaMtl, TaPwdr	Ust-Kamenogorsk, East Kazakhstan	Ulba Metallurgical Plant JSC (NAC Kazatomprom JSC)
Mexico	K2TaF7, TaPwdr	Matamoros, Tamaulipas	KEMET de Mexico, S.A. de C.V. [KEMET Corp. (Yageo Corp.)]
Russia	Ta2O5, TaCl5	Solikamsk, Permskiy Kray	OAo Solikamsk Magnesium Works (SMZ)
Rwanda	TaH5, TaMtl	Bugesera Special Economic Zone, Bugesera District, Eastern Province	PowerX Ltd. (Power Resources International Ltd.)

1—Identified global consumers of tantalum concentrates

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Products ¹	Location	Operator and Ownership
Thailand	K2TaF7, Ta2O5, TaCl5, TaPwdr,	Map Ta Phut, Rayong Province	TANIOBIS Co., Ltd. (JX Metals Group)
United Kingdom	TaPwdr	Wath upon Dearne, Rotherham	Metalysis Ltd.
United States	TaAlloys, TaMtl, TaPwdr	Boyertown, Montgomery County, PA	Global Advanced Metals USA, Inc. (Global Advanced Metals Pty Ltd.)

¹K2TaF7, K-salt (potassium fluorotantalate); Ta, tantalum; Ta2O5, tantalum pentoxide; TaAl, tantalum-aluminum alloy; TaAlloys, tantalum alloys; TaC, tantalum carbide; TaCl5, tantalum chloride; Ta ethoxide, tantalum ethoxide; TaH5, tantalum hydride; TaMtl, tantalum metal; TaN, tantalum nitride; TaNbC, tantalum niobium carbide; TaPwdr, tantalum powder; TaRecyc, tantalum recycle; TaSe2, tantalum diselenide; TaSi2, tantalum silicide.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Australia	Smelter	Greenbushes, Western Australia	Global Advanced Metals Pty Ltd.
Bolivia	Smelter	Vinto smelting complex, Vinto, Oruro Department	Empresa Metalúrgica Vinto S.A. (Compania Minera Colquira S.A.)
Bolivia	Smelter	Lucianita tin plant, Oruro Department	Empresa Minera Huanuni (Corporación Minera de Bolivia)
Bolivia	Smelter	Huajara Industrial Park, Oruro, Oruro Department	Operaciones Metalúrgicas S.A.
Brazil	Smelter	São José, Santa Catarina	CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda
Brazil	Smelter	Ariquemes, Rondônia	Estanho de Rondônia S.A. (Companhia Siderúrgica Nacional)

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Brazil	Smelter	Mogi das Cruzes, São Paulo	Fabrica Auricchio Industria e Comercio Ltda.
Brazil	Smelter	São João del Rei, Minas Gerais	Magnu's Minerais Metais e Ligas Ltda.
Brazil	Smelter	Ariquemes, Rondônia	Melt Metais e Ligas S.A.
Brazil	Smelter	Pinpora, Sao Paulo	Mineração Taboca S.A. [China Nonferrous Metal Mining Group Co., Ltd. (China)]
Brazil	Refinery	São João del Rei, Minas Gerais	Resind Indústria e Comércio Ltda.
Brazil	Refinery	Bebedouro, Sao Paulo	Soft Metais Ltda.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Brazil	Smelter	Piracicaba, São Paulo	Super Ligas
Brazil	Refinery	Ariquemes, Rondônia	White Solder Metalurgia e Mineração Ltda.
China	Refinery and smelter	Chenzhou, Hunan	Chenzhou Baiyi Environmental Protection High-tech Materials Co. Ltd.
China	Refinery and smelter	Xiadu, Suxian, Chenzhou, Hunan	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd. (Yunnan Tin Industry Co., Ltd., 100%)
China	Smelter	Heyan Village, Linxi Town, Chifeng, Nei Mongol	Chifeng Dajingzi Tin Industry Co., Ltd. [China Nonferrous Metal Mining (Group) Co., Ltd.]
China	Smelter	Pinggui, Hezhou, Guangxi	CNMC (Guangxi) PGMA Co. Ltd.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
China	Refinery and smelter	Gejiu, Yunnan	Gejiu Fengming Metallurgy Chemical Plant
China	Smelter	Gejiu, Yunnan	Gejiu Kaimeng Industry and Trade Co., Ltd.
China	Smelter	Gejiu, Yunnan	Gejiu Nonferrous Metal Processing Co. Ltd.
China	Smelter	Guangdong Foshan Nanhai, Gejiu, Yunnan	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.
China	Smelter	Huogudu village, Zhadian town, Gejiu, Yunnan	Gejiu Zili Mining and Metallurgical Co. Ltd.
China	Smelter	Guyi Village, Chao'An, Chouzhou, Guangdong	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
China	Smelter	Nanjing, Guangxi	Guangxi Huaxi Nonferrous Metals Co., Ltd.
China	Smelter	Guanyang, Guangxi	Guanyang Guida Nonferrous Metal Smelting Plant
China	Smelter	Huichang, Ganzhou	Huichang Jinshunda Tin Industry Co. Ltd.
China	Smelter	Ganzhou, Jiangxi	Huichang Xiaoshan Tin Industry Co. Ltd.
China	Smelter	Nankang, Ganzhou, Jiangxi	Jiangxi New Nanshan Technology Co. Ltd.
China	Refinery and smelter	Maanshan, Anhui	Ma'anshan Weitai Tin Co., Ltd.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
China	Smelter	Gejiu, Yunnan	Yunnan Chengfeng Nonferrous Metals Co. Ltd.
China	Smelter	Wuhua, Kunming, Yunnan	Yunnan Tin Industry Co. Ltd. (Yunnan Tin Group Co. Ltd.)
China	Smelter	Jijie, Gejiu, Yunnan	Yunnan Yunfan Non-ferrous Metals Co., Ltd.
Congo (Kinshasa)	Smelter	Lubumbashi, Haut-Katanga	Mining Mineral Resources S.A.S. (VINMART Group)
India	Smelter	Dantewada, Chhattisgarh	Precious Minerals and Smelting Ltd. (Lunia Group)
Indonesia	Smelter	Pangkalpinang, Bangka Belitung Province	PT Bangka Timah Utama

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Indonesia	Smelter	Sungailiat, Bangka Belitung Province	PT Kijang Jaya Mandiri
Indonesia	Smelter	Sungailiat, Bangka Belitung Province	PT Masbro Alam Stania
Indonesia	Smelter	Sungailiat, Bangka Belitung Province	PT Mitra Stania Prima (PT Arsari Tambang)
Indonesia	Smelter	Pangkalpinang, Bangka Belitung Province	PT Mitra Sukses Globalindo
Indonesia	Smelter	Kundur Island, Riau Islands Province	PT Timah Tbk Kundur
Indonesia	Smelter	Mentok, Bangka Belitung Province	PT Timah Tbk Mentok

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Indonesia	Smelter	Bogor, Jawa Barat	PT Tirus Putra Mandiri
Japan	Smelter	Kosaka, Akita	Nonferrous Metals DOWA Metals & Mining Co., Ltd. [Dowa Holdings Co., Ltd.]
Korea, North	Smelter	Munchon, Kangwon	Munpyong (Korea Zinc Industrial Group)
Malaysia	Smelter	Butterworth, Penang	Malaysia Smelting Corp. Bhd.
Malaysia	Smelter	Pulau Indah, Port Klang	Malaysia Smelting Corp. Bhd.
Peru	Refinery and smelter	Pisco, Ica Region	Minsur S.A.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Poland	Refinery and smelter	Chmielów, Podkarpackie	Fenix Metals Sp. z o.o.
Russia	Smelter	Novosibirsk	OOO NOK (Novosibirsk Tin Plant)
Rwanda	Refinery and smelter	Kigali	LuNa Smelter Ltd. (Luma Holding Group Ltd.)
Rwanda	Smelter	Bugesera Special Economic Zone, Bugesera District, Eastern Province	PowerX Ltd. (Power Resources International Ltd.)
Spain	Refinery and smelter	Berango, Bizkaia	Aurubis Berango S.L.U.
Spain	Smelter	Las Ventas de Retamosa, Toledo	CRM Synergies S.L.

2—Identified global consumers of tin concentrates (refineries and smelters)

Explanation: This list contains global facilities known to be able to process tantalum concentrate to produce industrial tantalum products. Data records are sorted by country and then alphabetically by owner.

Country	Plant Type	Location	Operator and Ownership
Taiwan	Refinery and smelter	Guanyin, Taoyuan	Rui Da Hung Technology Materials Co., Ltd. (Rui Da Hung Co., Ltd.)
Thailand	Refinery and smelter	Phuket, Phuket Province	Thailand Smelting and Refining Co. Ltd. (AMC PLC)
United Kingdom	Smelter	Trevellas Coombe, Cornwall	Blue Hills Tin Streams
Vietnam	Smelter	Electro-Mechanical Facility, Tinh Tuc City, Cao Bang Province	Cao Bang Minerals & Metallurgy JSC
Vietnam	Smelter	Phuc Xa Ward, Thai Nguyen City, Thai Nguyen Province	Thai Nguyen Mining and Metallurgy Co. Ltd. (Institute of Mining Science and Technology-Metallurgy, Ministry of Industry and Trade)
Vietnam	Refinery and smelter	My Hao District, Hung Yen Province	VQB Mineral and Trading Group JSC

3—Identified global consumers of tungsten concentrates

Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
Austria	Ammonium paratungstate	St. Martin im Sulmtal, Styria	Wolfram Bergbau und Hütten AG (Sandvik AB, 100%)
Brazil	Ferrotungsten	Araçariguama, São Paulo	ACL Metais Eireli
China	Ferrotungsten	Dongping Town, Anhua County, Yiyang, Hunan	Anhua County Tiangong Jinyuan Alloy Materials Co. Ltd.
China	Ferrotungsten	Dongping Town, Anhua County, Yiyang, Hunan	Anhua Tiangong Jinyuan Alloy Materials Co., Ltd.
China	Ammonium paratungstate	Fengxian Village, Huju Town, Chaling County, Hunan	Chaling County Dadi Tungsten Industry Co., Ltd.
China	Ammonium paratungstate	Luanchuan County, Luoyang, Henan	China Molybdenum Tungsten Co., Ltd. (CMOC Group Ltd.)

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Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
China	Ammonium paratungstate	Chongyi County, Ganzhou, Jiangxi	Chongyi Zhangyuan Tungsten Co., Ltd.
China	Ammonium paratungstate	Pinggui, Hezhou, Guangxi	CNMX Guangxi PGMA Co., Ltd. (a subsidiary of China Nonferrous Metal Mining Group Co., Ltd.)
China	Ferrotungsten	Nanyang, Shanghang County, Longyan, Fujian	Fujian Ganmin Rare Metals Co., Ltd.
China	Ammonium paratungstate	Yanshi, Xinluo, Longyan, Fujian	Fujian Xinlu Tungsten Co., Ltd. (Xiamen Tungsten Co., Ltd., 51%, and Industry Co. Ltd., 49%)
China	Ammonium paratungstate	Zhanggong, Ganzhou, Jiangxi	Ganzhou Grand Sea Tungsten Co., Ltd.

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Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
China	Ammonium paratungstate	Shuixi Village, Ganzhou, Jiangxi	Ganzhou Huaxing Tungsten Products Co., Ltd. [Jiangxi Tungsten Industry Group Co. Ltd. (joint venture between China Minmetals and Jiangxi Rare Earth and Rare Metals Tungsten Group Corp.)]
China	Ferrotungsten	Ganxian, Ganzhou, Jiangxi	Ganzhou Jiangwu Ferrotungsten Alloy Co. Ltd. (Jiangxi Tungsten Holding Group Co. Ltd.)
China	Ferrotungsten	Ganxian, Ganzhou, Jiangxi	Ganzhou Jiangwu Ferrotungsten Co., Ltd. [Jiangxi Tungsten Industry Group Co. Ltd. [joint venture between China Minmetals and Jiangxi Tungsten Industry Holding Group Co., Ltd.]
China	Ammonium paratungstate	Guantang Industrial Zone, Chao'an County, Chaozhou, Guangdong	Guangdong Xianglu Tungsten Co., Ltd.
China	Ammonium paratungstate	Guanzhuang, Yuanling, Huaihua, Hunan	Hunan Chenzhou Mining Co., Ltd. (Hunan Gold Corp. Ltd.)

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Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
China	Ammonium paratungstate	Hongshan Science & Technology Park, Hengshan, Hengyang, Hunan	Hunan Jintai New Material Co., Ltd.
China	Ammonium paratungstate	Suxian District, Chenzhou, Hunan	Hunan Shizhuyuan Nonferrous Metals Co. Ltd., Chenzhou Tungsten Products Branch (formerly Chenzhou Diamond Tungsten Products Co, Ltd.)
China	Ammonium paratungstate	Shuixi Town, Zhanggong, Ganzhou, Jiangxi	Jiangwu H.C. Starck Tungsten Products Co., Ltd. [Jiangxi Rare Metals Tungsten Holdings Group Co. Ltd. and H.C. Starck GmbH (Masan Group Corp.)]
China	Ammonium paratungstate	New Century Industrial Park, Gao'an, Jiangxi	Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.
China	Ammonium paratungstate	Wanjialing, Tonggu, Jiangxi	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd. [Jiangxi Tungsten Industry Holding Group Co., Ltd.]
China	Ammonium paratungstate	Tangwoli, Dayu County, Ganzhou, Jiangxi	Jiangxi Xianglu Tungsten Co., Ltd. (Guangdong Xianglu Tungsten Co., Ltd.)

3—Identified global consumers of tungsten concentrates

Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
China	Ammonium paratungstate	Dingnan County, Ganzhou, Jiangxi	Jiangxi Xinsheng Tungsten Industry Co., Ltd. (Jiangxi Tungsten Industry Holding Group Co., Ltd., 51%)
China	Ammonium paratungstate	Wudu Industrial Park, Xiushui County, Jiangxi	Jiangxi Xiushui Ganbei Tungsten Industry Co., Ltd. [China Tungsten High-tech Materials Co., Ltd. (China Minmetals Corp.)]
China	Ammonium paratungstate	Changlong Town, Chongyi County, Ganzhou, Jiangxi	Jiangxi Yaosheng Tungsten Co., Ltd.
China	Ammonium paratungstate	Nanfeng Xiaozhai, Malipo, Yunnan	Malipo Haiyu Tungsten Co., Ltd. (Xiamen Tungsten Industry Co., Ltd.)
China	Ferrotungsten	Nanyang, Shanghang County, Longyan, Fujian	Shinwon Tungsten (Fujian Shanghang) Co. Ltd.
China	Ammonium paratungstate	Wuning County, Jiujiang City, Jiangxi	Wuning County Bingkun Tungsten Industry Co., Ltd.

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Country	Products	Location	Operator and Ownership
China	Ammonium paratungstate	Haicang District, Xiamen, Fujian	Xiamen Jialu Metal Industry Co., Ltd. also known as Xiamen Tungsten (H.C) Co., Ltd. [Xiamen Tungsten Industry Co., Ltd.]
China	Ammonium paratungstate	Haicang District, Xiamen, Fujian	Xiamen Tungsten Industry Co., Ltd. Haicang Branch [Xiamen Tungsten Co., Ltd.]
China	Ammonium paratungstate	Sanxing, Rucheng County, Chenzhou, Hunan	Zhongxiang Tungsten Co., Ltd.
India	Ammonium paratungstate	Sinnar, Nashik, Maharashtra State	SRP Tungsten Pvt. Ltd. (SRP Electronica Group)
Japan	Ammonium paratungstate	Akita, Akita	Japan New Metals Co. Ltd. (Mitsubishi Materials Corp., 100%)
Malaysia	Ammonium Paratungstate, Ferrotungsten	Kulim, Kedah	Malamet Smelting Bhd. Sdn. (Malamet Sdn. Bhd.)

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Explanation: This list represents global plants that are known to process tungsten concentrates. It does not include plants that only process scrap or only process materials downstream from concentrates and/or scrap. Additional concentrate-consuming plants may exist that were not included if the type of feed materials processed could not be confirmed. Data records are sorted by country and then alphabetically by owner.

Country	Products	Location	Operator and Ownership
Russia	Ammonium paratungstate	Kirovgrad, Sverdlovskaya Oblast	OOO Kirovgrad Hard Alloys
Russia	Ferrotungsten	Roshal', Moscow Region	OOO Moliren (AS Nordmet)
Russia	Ferrotungsten	Unecha, Bryanskaya Oblast	OOO Octanta
United States	Ammonium paratungstate	Lewiston, Maine	Elmet Technologies LLC
United States	Ammonium paratungstate	Towanda, Pennsylvania	Global Tungsten & Powders LLC. (Plansee Group)
United States	Ammonium paratungstate	Huntsville, Alabama	Kennametal Inc.

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Country	Products	Location	Operator and Ownership
United States	Ammonium paratungstate	Depew, New York	Niagara Refining LLC (Sumitomo Electric Industries, Ltd.)
Vietnam	Ferrotungsten	Tan Tien Industrial Zone, Vinh Bao District, Hai Phong Province	Asia Tungsten Products Vietnam Ltd. [Asia Tungsten Products Co., Ltd. (Hong Kong)]
Vietnam	Ammonium paratungstate	Dai Tu District, Thai Nguyen Province	Masan High-Tech Materials Corp. (Masan Group Corp.)