

**List of 3TG Smelters and Cobalt Refiners (Conformant and Active as of February 28, 2023) Identified by the 2022 Survey**

As of Feb 28, 2023	Metal	3TG Standard Smelter Name	Smelter Location
Conformant	Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
Conformant	Gold	Aida Chemical Industries Co., Ltd.	JAPAN
Conformant	Gold	Agosi AG	GERMANY
Conformant	Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Conformant	Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Conformant	Gold	Argor-Heraeus S.A.	SWITZERLAND
Conformant	Gold	Asahi Pretec Corp.	JAPAN
Conformant	Gold	Asaka Riken Co., Ltd.	JAPAN
Conformant	Gold	Aurubis AG	GERMANY
Conformant	Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
Conformant	Gold	Boliden AB	SWEDEN
Conformant	Gold	C. Hafner GmbH + Co. KG	GERMANY
Conformant	Gold	Chimet S.p.A.	ITALY
Conformant	Gold	Chugai Mining	JAPAN
Conformant	Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Conformant	Gold	Dowa	JAPAN
Conformant	Gold	Eco-System Recycling Co., Ltd. East Plant	JAPAN
Conformant	Gold	Heraeus Germany GmbH Co. KG	GERMANY
Conformant	Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
Conformant	Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
Conformant	Gold	Istanbul Gold Refinery	TURKEY
Conformant	Gold	Japan Mint	JAPAN
Conformant	Gold	Jiangxi Copper Co., Ltd.	CHINA
Conformant	Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Conformant	Gold	Asahi Refining Canada Ltd.	CANADA
Conformant	Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Conformant	Gold	Kazzinc	KAZAKHSTAN
Conformant	Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Conformant	Gold	Kojima Chemicals Co., Ltd.	JAPAN
Conformant	Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Conformant	Gold	Materion	UNITED STATES OF AMERICA
Conformant	Gold	Matsuda Sangyo Co., Ltd.	JAPAN
Conformant	Gold	Mitsubishi Materials Corporation	JAPAN
Conformant	Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Conformant	Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Conformant	Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
Conformant	Gold	Nihon Material Co., Ltd.	JAPAN
Conformant	Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
Conformant	Gold	MKS PAMP SA	SWITZERLAND
Conformant	Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA
Conformant	Gold	PX Precinox S.A.	SWITZERLAND
Conformant	Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
Conformant	Gold	Royal Canadian Mint	CANADA
Conformant	Gold	Samduck Precious Metals	KOREA, REPUBLIC OF
Conformant	Gold	SEMPSA Joyeria Plateria S.A.	SPAIN
Conformant	Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Conformant	Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Conformant	Gold	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
Conformant	Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN
Conformant	Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN
Conformant	Gold	Shandong Gold Smelting Co., Ltd.	CHINA
Conformant	Gold	Tokuriki Honten Co., Ltd.	JAPAN
Conformant	Gold	Torecom	KOREA, REPUBLIC OF
Conformant	Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Conformant	Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Conformant	Gold	Valcambi S.A.	SWITZERLAND
Conformant	Gold	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA
Conformant	Gold	Yamakin Co., Ltd.	JAPAN
Conformant	Gold	Yokohama Metal Co., Ltd.	JAPAN
Conformant	Gold	Umicore Precious Metals Thailand	THAILAND
Conformant	Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
Conformant	Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
Conformant	Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
Conformant	Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Conformant	Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
Conformant	Gold	T.C.A S.p.A	ITALY

Conformant	Gold	REMONDIS PMR B.V.	NETHERLANDS
Conformant	Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Conformant	Gold	TOO Tau-Ken-Altyn	KAZAKHSTAN
Conformant	Gold	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA
Conformant	Gold	SAAMP	FRANCE
Conformant	Gold	Bangalore Refinery	INDIA
Conformant	Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
Conformant	Gold	Planta Recuperadora de Metales SpA	CHILE
Conformant	Gold	NH Recytech Company	KOREA, REPUBLIC OF
Conformant	Gold	Eco-System Recycling Co., Ltd. North Plant	JAPAN
Conformant	Gold	Eco-System Recycling Co., Ltd. West Plant	JAPAN
Conformant	Gold	Metal Concentrators SA (Pty) Ltd.	SOUTH AFRICA
Conformant	Gold	Gold by Gold Colombia	COLOMBIA
Conformant	Gold	CCR Refinery - Glencore Canada Corporation	CANADA
Conformant	Gold	LT Metal Ltd.	KOREA, REPUBLIC OF
Conformant	Gold	Heimerle + Meule GmbH	GERMANY
Conformant	Gold	Heraeus Metals Hong Kong Ltd.	CHINA
Conformant	Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
Conformant	Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
Conformant	Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Conformant	Gold	Metalor Technologies S.A.	SWITZERLAND
Conformant	Gold	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
Conformant	Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Conformant	Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Conformant	Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Conformant	Gold	SAFINA A.S.	CZECHIA
Conformant	Gold	L'Orfebre S.A.	ANDORRA
Conformant	Gold	Italpreziosi	ITALY
Conformant	Gold	WIELAND Edelmetalle GmbH	GERMANY
Conformant	Gold	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA
Conformant	Tantalum	F&X Electro-Materials Ltd.	CHINA
Conformant	Tantalum	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA
Conformant	Tantalum	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA
Conformant	Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA
Conformant	Tantalum	AMG Brasil	BRAZIL
Conformant	Tantalum	Mineracao Taboca S.A.	BRAZIL
Conformant	Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Conformant	Tantalum	NPM Silmet AS	ESTONIA
Conformant	Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
Conformant	Tantalum	QuantumClean	UNITED STATES OF AMERICA
Conformant	Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
Conformant	Tantalum	Taki Chemical Co., Ltd.	JAPAN
Conformant	Tantalum	Telex Metals	UNITED STATES OF AMERICA
Conformant	Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Conformant	Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Conformant	Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
Conformant	Tantalum	FIR Metals & Resource Ltd.	CHINA
Conformant	Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Conformant	Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
Conformant	Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Conformant	Tantalum	KEMET de Mexico	MEXICO
Conformant	Tantalum	TANIOBIS Co., Ltd.	THAILAND
Conformant	Tantalum	TANIOBIS GmbH	GERMANY
Conformant	Tantalum	QSIL Metals Hermsdorf GmbH	GERMANY
Conformant	Tantalum	Materion Newton Inc.	UNITED STATES OF AMERICA
Conformant	Tantalum	TANIOBIS Japan Co., Ltd.	JAPAN
Conformant	Tantalum	TANIOBIS Smelting GmbH & Co. KG	GERMANY
Conformant	Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Conformant	Tantalum	Global Advanced Metals Aizu	JAPAN
Conformant	Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
Conformant	Tantalum	Jiangxi Tuohong New Raw Material	CHINA
Conformant	Tantalum	RFH Yancheng Jinye New Material Technology Co., Ltd.	CHINA
Conformant	Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Conformant	Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
Conformant	Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Conformant	Tin	Alpha	UNITED STATES OF AMERICA
Conformant	Tin	PT Aries Kencana Sejahtera	INDONESIA
Conformant	Tin	PT Premium Tin Indonesia	INDONESIA
Conformant	Tin	Dowa	JAPAN

Conformant	Tin	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
Conformant	Tin	Estanho de Rondonia S.A.	BRAZIL
Conformant	Tin	Fenix Metals	POLAND
Conformant	Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Conformant	Tin	China Tin Group Co., Ltd.	CHINA
Conformant	Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
Conformant	Tin	Metallic Resources, Inc.	UNITED STATES OF AMERICA
Conformant	Tin	Mineracao Taboca S.A.	BRAZIL
Conformant	Tin	Minsur	PERU
Conformant	Tin	Mitsubishi Materials Corporation	JAPAN
Conformant	Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
Conformant	Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
Conformant	Tin	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)
Conformant	Tin	PT Artha Cipta Langgeng	INDONESIA
Conformant	Tin	PT Babel Inti Perkasa	INDONESIA
Conformant	Tin	PT Babel Surya Alam Lestari	INDONESIA
Conformant	Tin	PT Bukit Timah	INDONESIA
Conformant	Tin	PT Mitra Stania Prima	INDONESIA
Conformant	Tin	PT Prima Timah Utama	INDONESIA
Conformant	Tin	PT Refined Bangka Tin	INDONESIA
Conformant	Tin	PT Sariwiguna Binasentosa	INDONESIA
Conformant	Tin	PT Stanindo Inti Perkasa	INDONESIA
Conformant	Tin	PT Timah Tbk Kundur	INDONESIA
Conformant	Tin	PT Timah Tbk Mentok	INDONESIA
Conformant	Tin	PT Tommy Utama	INDONESIA
Conformant	Tin	Rui Da Hung	TAIWAN, PROVINCE OF CHINA
Conformant	Tin	Thaisarco	THAILAND
Conformant	Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Conformant	Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Conformant	Tin	CV Venus Inti Perkasa	INDONESIA
Conformant	Tin	Magnu's Minerais Metais e Ligas Ltda.	BRAZIL
Conformant	Tin	PT ATD Makmur Mandiri Jaya	INDONESIA
Conformant	Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
Conformant	Tin	CV Ayi Jaya	INDONESIA
Conformant	Tin	PT Cipta Persada Mulia	INDONESIA
Conformant	Tin	Resind Industria e Comercio Ltda.	BRAZIL
Conformant	Tin	PT Sukses Inti Makmur	INDONESIA
Conformant	Tin	PT Menara Cipta Mulia	INDONESIA
Conformant	Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Conformant	Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
Conformant	Tin	PT Bangka Serumpun	INDONESIA
Conformant	Tin	Tin Technology & Refining	UNITED STATES OF AMERICA
Conformant	Tin	PT Rajawali Rimba Perkasa	INDONESIA
Conformant	Tin	Luna Smelter, Ltd.	RWANDA
Conformant	Tin	PT Mitra Sukses Globalindo	INDONESIA
Conformant	Tin	CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	BRAZIL
Conformant	Tin	CRM Synergies	SPAIN
Conformant	Tin	Fabrica Auricchio Industria e Comercio Ltda.	BRAZIL
Conformant	Tin	DS Myanmar	MYANMAR
Conformant	Tin	PT Putera Sarana Shakti (PT PSS)	INDONESIA
Conformant	Tin	Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA
Conformant	Tin	Aurubis Beerse	BELGIUM
Conformant	Tin	Aurubis Berango	SPAIN
Conformant	Tin	PT Bangka Prima Tin	INDONESIA
Conformant	Tungsten	A.L.M.T. Corp.	JAPAN
Conformant	Tungsten	Kennametal Huntsville	UNITED STATES OF AMERICA
Conformant	Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA
Conformant	Tungsten	Hunan Chenzhou Mining Co., Ltd.	CHINA
Conformant	Tungsten	Hunan Jintai New Material Co., Ltd.	CHINA
Conformant	Tungsten	Japan New Metals Co., Ltd.	JAPAN
Conformant	Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Conformant	Tungsten	Kennametal Fallon	UNITED STATES OF AMERICA
Conformant	Tungsten	Wolfram Bergbau und Hutten AG	AUSTRIA
Conformant	Tungsten	Xiamen Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
Conformant	Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Jiangxi Xincheng Tungsten Industry Co., Ltd.	CHINA

Conformant	Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA
Conformant	Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Conformant	Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
Conformant	Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM
Conformant	Tungsten	Hunan Shizhuyuan Nonferrous Metals Co., Ltd. Chenzhou Tungsten Products Branch	CHINA
Conformant	Tungsten	H.C. Starck Tungsten GmbH	GERMANY
Conformant	Tungsten	TANIOBIS Smelting GmbH & Co. KG	GERMANY
Conformant	Tungsten	Masan High-Tech Materials	VIET NAM
Conformant	Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
Conformant	Tungsten	Niagara Refining LLC	UNITED STATES OF AMERICA
Conformant	Tungsten	China Molybdenum Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
Conformant	Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA
Conformant	Tungsten	Fujian Ganmin RareMetal Co., Ltd.	CHINA
Conformant	Tungsten	Lianyou Metals Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Conformant	Tungsten	Hubei Green Tungsten Co., Ltd.	CHINA
Conformant	Tungsten	Cronimet Brasil Ltda	BRAZIL
Conformant	Tungsten	Fujian Xinlu Tungsten Co., Ltd.	CHINA
Active	Gold	C.I Metales Procesados Industriales SAS	COLOMBIA
Active	Gold	Augmont Enterprises Private Limited	INDIA
Active	Gold	Alexy Metals	UNITED STATES OF AMERICA
Active	Gold	Sancus ZFS (L'Orfebre, SA)	COLOMBIA
Active	Gold	WEEEREFINING	FRANCE
Active	Gold	GGC Gujrat Gold Centre Pvt. Ltd.	INDIA
Active	Tin	PT Belitung Industri Sejahtera	INDONESIA
Active	Tin	PT Timah Nusantara	INDONESIA
Active	Tin	Super Ligas	BRAZIL
<b>As of Feb 28, 2023</b>	<b>Metal</b>	<b>Cobalt Standard Refiner Name</b>	<b>Smelter Location</b>
Conformant	Cobalt	Gem (Jiangsu) Cobalt Industry Co., Ltd.	CHINA
Conformant	Cobalt	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA
Conformant	Cobalt	Zhuhai Kelixin Metal Materials Co., Ltd.	CHINA
Conformant	Cobalt	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA
Conformant	Cobalt	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA
Conformant	Cobalt	Tianjin Maolian Science & Technology Co., Ltd.	CHINA
Conformant	Cobalt	Zhejiang Huayou Cobalt Company Limited	CHINA
Conformant	Cobalt	Umicore Finland Oy	FINLAND
Conformant	Cobalt	Umicore Olen	BELGIUM
Conformant	Cobalt	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA
Conformant	Cobalt	Kamoto Copper Company	CONGO, DEMOCRATIC REPUBLIC OF THE
Conformant	Cobalt	Chemaf Etoile	CONGO, DEMOCRATIC REPUBLIC OF THE
Conformant	Cobalt	La Compagnie de Traitement des Rejets de Kingamyambo S.A. (Metalkol S.A.)	CONGO, DEMOCRATIC REPUBLIC OF THE
Conformant	Cobalt	Niihama Nickel Refinery, Sumitomo Metal Mining	JAPAN
Conformant	Cobalt	Mine de Bou-Azzer	MOROCCO
Conformant	Cobalt	Compagnie de Tifnout Tiranimine	MOROCCO
Conformant	Cobalt	Guangdong Jiana Energy Technology Co., Ltd.	CHINA
Conformant	Cobalt	Jiangsu Xiongfeng Technology Co., Ltd.	CHINA
Conformant	Cobalt	SungEel HiTech Co., Ltd.	KOREA, REPUBLIC OF
Conformant	Cobalt	Jingmen GEM Co., Ltd.	CHINA
Conformant	Cobalt	Ganzhou Highpower Technology Co., Ltd.	CHINA
Conformant	Cobalt	NORILSK NICKEL HARJAVALTA OY	FINLAND
Conformant	Cobalt	Zhejiang New Era Zhongneng Technology Co., Ltd.	CHINA
Conformant	Cobalt	Hunan Yacheng New Materials Co., Ltd.	CHINA
Conformant	Cobalt	Murrin Murrin Nickel Cobalt Plant	AUSTRALIA
Conformant	Cobalt	Hunan CNGR New Energy Science & Technology Co., Ltd.	CHINA
Conformant	Cobalt	Cosmo Chemical, Ltd.	KOREA, REPUBLIC OF
Conformant	Cobalt	Ningbo Hubang New Material Co., Ltd.	CHINA
Conformant	Cobalt	CoreMax Corporation	TAIWAN, PROVINCE OF CHINA
Conformant	Cobalt	Chizhou CN New Materials and Technology Co., Ltd.	CHINA
Conformant	Cobalt	Zhejiang Greatpower Cobalt Materials Co., Ltd.	CHINA
Conformant	Cobalt	Mechema Taiwan Plant 2	TAIWAN, PROVINCE OF CHINA
Conformant	Cobalt	Harima Refinery, Sumitomo Metal Mining	JAPAN
Conformant	Cobalt	Guizhou CNGR Resource Recycling Industry Development Co., Ltd.	CHINA
Conformant	Cobalt	Anhui Hanrui New Materials Co., Ltd.	CHINA
Active	Cobalt	Dynatec Madagascar Company	MADAGASCAR
Active	Cobalt	Port Colborne Refinery	CANADA

Active	Cobalt	Societe pour le Traitement du Terril de Lubumbashi (STL)	CONGO, DEMOCRATIC REPUBLIC OF THE
Active	Cobalt	Jiangxi Jiangwu Cobalt industrial Co., Ltd.	CHINA
Active	Cobalt	SOCIETE MINIERE DU KATANGA (SOMIKA SARL)	CONGO, DEMOCRATIC REPUBLIC OF THE
Active	Cobalt	Hunan Jinxin New Material Holding Co., Ltd.	CHINA