

Responsible sourcing of minerals and metals

Report 2023



Summary

This report describes Sandvik's due diligence process for the responsible sourcing of minerals and metals contained in the products on the market. Specifically, it outlines the various policies, procedures and tools that support Sandvik's work with responsible sourcing for conflict minerals (Tin, Tungsten, Tantalum and Gold, commonly referred to as 3TG) and cobalt. It also provides information on our 3TG and cobalt supply chain risk assessment and mitigation.

Sandvik's commitment to due diligence for raw materials has been based on the internationally recognized good practice framework, the [OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas](#), since the establishment of the work in 2013. The commitment to implement the OECD Due Diligence Guidance is enshrined in Sandvik's Statement on

the Responsible Sourcing of Minerals and Metals and Supplier Code of Conduct. Annually, suppliers are required to populate the Conflict Minerals Reporting Template (CMRT) and Extended Minerals Reporting Template (EMRT), followed by a process in which their responses are analyzed, validated and supplier risks identified.

This report covers the reporting period from January to December 2023. The report highlights Sandvik's activities and due diligence process. During this period Sandvik identified 137 suppliers as being in-scope for 3TG and 121 suppliers in scope for cobalt across its three business areas.

While Sandvik received a response rate of 80 % on the CMRTs and 60 % on the EMRT during the reporting period, it has seen an improvement in the response rate and quality of the surveys since the establishment of the due diligence exercise in 2013, in part due to its ongoing engage-

ment with suppliers to help them meet its responsible sourcing requirements.

As part of the ongoing efforts regarding responsible sourcing of minerals and metals, business areas Sandvik Mining and Rock Solutions and Sandvik Rock Processing Solutions continue to expand the scope of suppliers and adding divisions to the Responsible Sourcing of Minerals and Metals program. Workshops with R&D and Sourcing representatives as well as trainings have been performed. A tool supporting supplier risk analysis has been introduced. The overall result is reflected in this report. Further capacity building around the OECD due diligence framework and Sandvik governance will continue, together with expansion of scope of the supply chain aiming at strengthening performance.

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1. Introduction

Introduction to Sandvik

Sandvik is a high-tech and global engineering group offering products and services that enhance customer productivity, profitability and sustainability through unique expertise and solutions for the manufacturing, mining, and infrastructure industries. In 2023, Sandvik had approximately 41,000 employees and sales in about 170 countries.

Sandvik conducts operations in three business areas – Sandvik Manufacturing and Machining Solutions, Sandvik Mining and Rock Solutions and Sandvik Rock Processing Solutions, with responsibility for research and development (R&D), production and sales of their respective products and services. The business area Sandvik Manufacturing and Machining Solutions consists of two business area segments: Sandvik Manufacturing Solutions and Sandvik Machining Solutions, Sandvik Manufacturing Solutions is out of scope for this report.

Wolfram Bergbau & Hütten AG (WBH), located in Austria, is part of Sandvik Machining Solutions. Besides other operations, WBH operates one of the world's largest tungsten refineries and is listed as a Responsible Mineral Initiative (RMI) Responsible Minerals Assurance Process compliant tungsten facility ([RMAP Conformant Tungsten Smelters \(responsiblemineralsinitiative.org\)](https://www.responsiblemineralsinitiative.org)). As a "smelter-level" facility, WBH's refinery is considered a supply chain choke point between upstream mines and downstream producers. The material received therefore needs to be traced to the source. The company has its own [Responsible sourcing](https://www.responsiblemineralsinitiative.org)

[statement](https://www.responsiblemineralsinitiative.org), reports annually according to the OECD Step 5 guideline [Wolfram Due Diligence Report for Mineral Supplies 2023](https://www.responsiblemineralsinitiative.org), and undergoes annual third-party assurance assessments. As such the due diligence practices of WBH are fully aligned with Sandvik expectations, but in detail out of the scope of this report.

3TG and cobalt

A large part of the world's natural mineral resources is found in conflict-affected and high-risk areas (CAHRAs), which are marked by institutional weakness, political instability, and human rights abuses. Thus, mineral supply chains from CAHRAs compose a risk to either directly or indirectly contribute to human rights violations, including forced labor and child labor, conflict, and financial crime. The OECD Due Diligence Guidance provides a five-step, good-practice framework that is aligned with the United Nations Guiding principles on business and human rights (UNGP), for risk-based due diligence. The framework extends to include minerals sourced from conflict-affected and high-risk areas (CAHRAs) and has been integrated into various standards and regulations that promote responsible practices, such as the US Dodd-Frank Act and the EU Conflict Mineral Regulation.

The term conflict minerals refer to the metals tantalum, tin, tungsten, and gold (3TG) as defined by the US Dodd Frank Act and the EU Conflict Minerals Regulation. The EU Conflict Minerals Regulation entered into force on 1 January 2021. This regulation requires EU companies to ensure they import 3TGs minerals and metals from responsible sources and to conduct supply chain due diligence

based on the OECD five-step framework. The Dodd-Frank Act came into force in 2010 and includes section 1502, which requires publicly traded companies using conflict minerals in their products to disclose the source of the conflict minerals. The law is intended to prevent the Democratic Republic of Congo (DRC) national army and rebel groups from funding conflict with earnings from the minerals trade. Even though cobalt is not identified as a conflict mineral, over 50 percent of the world's cobalt is produced in DRC, which is a CAHRA¹. Several human rights reports have raised concerns about the adverse social impacts of cobalt mining, including the risk of child labour and hazardous working conditions commonly found in informal artisanal cobalt mining. Sandvik has decided to apply its due diligence management system to both 3TG and cobalt.

Sandvik is committed to contributing to sustainable development for present and future generations, which includes the ethical sourcing of minerals. Sandvik condemns all activities in the raw material sector that are connected to illegal or unlawful exploitation of ores, that directly or indirectly finance, or benefit armed groups in conflict areas, or that contribute to serious human rights violations, including child labor. The Sandvik Supplier Code of Conduct and Sandvik Statement on Responsible sourcing of minerals and metals reflect the company's commitment to responsible sourcing of minerals and metals in accordance with the OECD Due Diligence Guidance. These documents lay the foundation for responsible sourcing and supplier requirements for 3TG and cobalt.

¹ Cobalt ([responsiblemineralsinitiative.org](https://www.responsiblemineralsinitiative.org))

2. Sandvik's due diligence on 3TG and cobalt suppliers

2.1 Due diligence in five steps

This section presents Sandvik's commitment to the OECD Five-Step Framework for Risk-Based Due Diligence² for 3TG and cobalt.

Step 1: establish strong company management systems

The [Sandvik Statement on Responsible sourcing of minerals](#) and Sandvik [Supplier Code of Conduct](#) express Sandvik's commitment to responsible sourcing of minerals and metals in accordance with the OECD Due Diligence Guidance. These documents lay the foundation for Sandvik's work with responsible sourcing and supplier requirements for 3TG and cobalt.

According to the Statement on Responsible sourcing of minerals and metals, Sandvik suppliers are obligated to report information on their supply chain and due diligence practices through common industry tools like the Responsible Minerals Initiatives CMRT and EMRT. Third-party assurance or certification, such as the Responsible Minerals Initiative (RMI) Responsible Mineral Assurance Process (RMAP), are required for all 3TG and cobalt smelters and refiners (SOR) in the supply chain. Sandvik requires its suppliers to ensure that the smelters and refiners in their supply chains are assessed as compliant with accepted third-party audit programs such as the RMI RMAP. Cobalt smelters and refineries must aim to be assessed as compliant or must, at minimum, take part and actively engage in third-party audit programs.

The Sandvik Supplier Code of Conduct is a central document that outlines the sustainability requirements that suppliers must comply with in order to do business with Sandvik, including those related to the responsible sourcing of minerals and metals. The Supplier Code of Conduct is incorporated into supplier agreements. The expectation is that Sandvik's direct suppliers will cascade the requirements to their own supply chain. Suppliers of raw materials and components containing 3TG and/or cobalt that are part of the direct supply chain of Sandvik's products must comply with all applicable laws concerning responsible sourcing and conflict minerals. They must also follow the OECD Due Diligence Guidance and upon request provide required information on their supply chain and due diligence practices and ensure that all suppliers in their 3TG and cobalt supply chain are traceable to smelter or refiner level. Sandvik has a whistleblowing system called "Speak Up" where all internal and external stakeholders can anonymously report suspected breaches of Sandvik's Supplier Code of Conduct and policies. The opportunity to speak up is an important part of the Sandvik culture, helping to build trust, improve the work environment and to reduce risks for the company.

Sandvik's supply chain due diligence process is formalized in the Responsible Sourcing of Minerals and Metals Procedure. The procedure covers the responsible sourcing of 3TG and cobalt and applies to all entities within Sandvik

that are considered downstream on the smelter level. The procedure outlines a step-by-step process for conducting supply chain due diligence on 3TG and cobalt suppliers. It also outlines the governance structure, which allocates roles and responsibilities for the implementation of the due diligence to decision-making and operational levels in Sandvik across business areas and divisions. Sandvik's governance structure for supply chain due diligence is of a decentralized nature and is built on cross collaboration between each Business area.

Step 2: identify and assess risk in the supply chain

Suppliers of 3TG and cobalt are required to populate the RMI CMRT and/or EMRT templates on an annual basis with information related to their sourcing and due diligence practices. The responses from the CMRT and EMRT are analyzed, validated and risks identified by the personnel responsible within each division. Risks relate to incomplete or unreasonable responses as well as the presence of non-conformant smelters and refiners in the supply chain.

As a supporting tool to assess whether the smelters and refiners in the supply chain are conformant with OECD and RMI RMAP standards, Sandvik refers to the Smelter or Refiner Master Tool, regularly updated by the RMI. For the reporting period presented in this report, Sandvik has been using an updated risk identification model and assessment methodology

to further strengthen the due diligence process. There are 4 possible levels of risk. The classification of risks levels is as follows:

- Very high risk: Confirmed presence of a non-conformant SOR in the supplier's operations or an SOR that is not participating in RMAP.
- High risk: Potential risk of a non-conformant SOR in the supplier's operations due to missing SOR list, 3TG SOR with "active" status. Supplier does not have an OECD aligned responsible sourcing policy and due diligence management system in place despite the scope of its operations requiring this.
- Moderate risk: Possible risks in supplier operations due to ineffective or incomplete supplier policies, procedures, or practices.
- Low risk: Supplier has provided a complete CMRT/EMRT and a list of conformant SORs and evidence of due diligence management system.

Step 3: Manage risks

Where supplier risks have been identified, Sandvik develops risk mitigation plans that are tailored to each supplier according to the risk severity. Risk mitigation may vary depending on factors such as the size of the company and its position in the industry, and whether it is a smelter or not. Very high- and high-risk suppliers had the highest priority in risk mitigation. Suppliers were asked to provide a complete Smelters and Refiners list in their CMRT/EMRT or to improve the completeness of their response. Subsequently emphasis

was put on non-conformant smelters provided in CMRT/EMRT as they are identified as very high risk. Action steps were set up to eliminate Non-Conformant smelters in their supply chain.

Sandvik aims to have suppliers with a due diligence management system in place in order to meet the expectations set out in the Supplier Code of Conduct. There are requirements for suppliers to have an established responsible sourcing policy and have it publicly available according to OECD. Compliance with these requirements has been checked in CMRT/EMRT as well as on the supplier website since it must be publicly available. Suppliers were informed about these requirements and about the need to comply with them.

Risk mitigation is an ongoing process. Risks are reduced gradually and monitored continuously. There is constant effort to improve by following up on last year's results such as response rate and numbers of Non conformant smelters. Purchasers were trained to discuss the importance of responsible sourcing and to explain Sandvik's expectations and the requirements of the CMRT/EMRT. Sandvik will consider temporary suspension or termination of cooperation if no corrective action is taken.

Step 4: Third party assurance at identified points in the supply chain

As a downstream company, Sandvik regularly engages with its first-tier suppliers in order to ensure that all smelters and refiners – identified points of material transformation – in its 3TG and

cobalt supply chain have the capacity or a pathway to become third-party assured against the RMI RMAP. This includes ongoing engagement of Sandvik's suppliers, including selected smelters and refiners, to communicate Sandvik's responsible sourcing requirements and advise on appropriate industry tools and training resources for RMAP certification.

Sandvik's subsidiary Wolfram Bergbau & Hütten AG is a tungsten smelter/refinery based in Austria and supplies a large share of Sandvik's tungsten needs. Since 2015, the facility (CID 002044) has undergone successfully annual third-party assessments, initially by the Conflict Free Sourcing Initiative and later, the Responsible Minerals Initiative's RMAP program. This assures ongoing conformance with the OECD Due Diligence Guidance and hence, Regulation (EU) 2017/821. The most recently completed assessment was conducted by ARCHE Advisors for the assessment period 08/09/2023 - 08/11/2023 and concluded without findings.

Step 5: publicly report on due diligence

In accordance with OECD step 5, Sandvik present activities and results on due diligence. This report is available on the company website and on the Sandvik intranet.

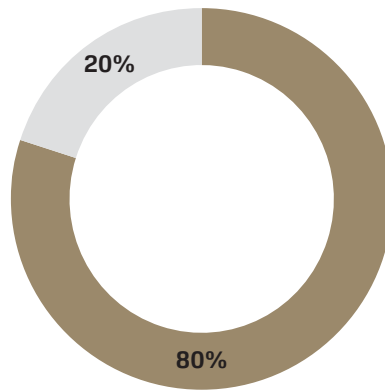
3. Results of 2023 supply chain risk assessment

During the reporting period, Sandvik identified a total of 137 suppliers as being in-scope for 3TG and 121 suppliers for cobalt across its three Business areas. The suppliers were contacted and requested to complete the CMRT and EMRT.

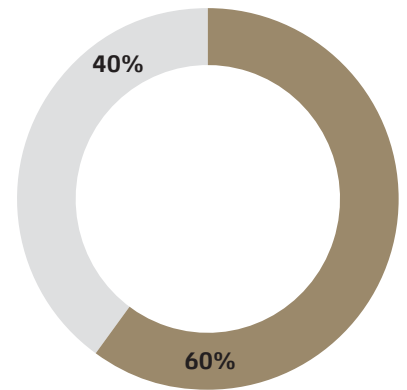
Sandvik achieved an 80% response rate on the CMRT survey with 3TG suppliers reporting 351 SORs in their supply chain. Within the EMRT survey Sandvik achieved a 60% response rate on the EMRT survey. Cobalt suppliers reported 49 SORs in their supply chain.

● EMRT provided ● EMRT not provided

CMRT response rate



EMRT response rate



3.1 Assessment of smelters and refiners

The smelter/refiner list in the Annex consolidates information from our suppliers. We accept CMRT/EMRT at the company level, meaning declarations often cover all products or substances from the parent company. Consequently, the list might include smelters/refiners not involved in processing our products.

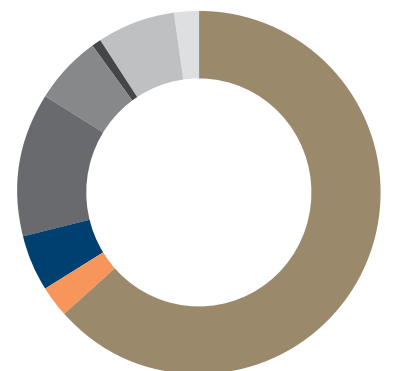
Given our diverse product portfolio and the complexity of global supply chains, we operate at varying distances from smelters and refineries. When we source minerals directly, we have greater engagement with the supply chain compared to when we purchase components like electronics, where the smelter may be several tiers removed. Achieving full control over the supply chain, especially when many steps away from the smelter or refinery, is a long-term effort that requires sustained collaboration to ensure transparency and compliance.

3TG supply chain

According to the 3TG supply chain analysis made, using the Smelter or Refiners Master tool issued by RMI, Sandvik can state that 64% of the smelters in the supply chain have Conformant status.

Active status has 3% of the smelters and in communication is 5% of the smelters. For 13% of smelters, outreach is required – the supplier should contact the smelter and require RMAP participation. RMI Due Diligence Review were unable to proceed 6% of the smelters. Only 1% of the smelters refused to participate in RMAP. For 2% of the smelters, the audit is no longer required due to suspension or closure of operations – Not Applicable status. The 6% of the reported SOR is determined by RMI to be non-conformant.

3TG Smelters or Refiners RMAP status



● Conformant 64 %
 ● Active 3 %
 ● In communication 5 %
 ● Outreach required 13 %
 ● RMI Due Diligence Review – unable to proceed 6 %
 ● Communication suspended – not interested 1 %
 ● Non conformant 7 %
 ● Not applicable 2 %

Cobalt supply chain

As part of the Cobalt supply chain analysis, 74% of the smelters have been identified as Conformant and 4% as Active. For 10% of the smelters, outreach from an RMI member company is needed to encourage their participation in RMAP. RMI Due Diligence Review were unable to proceed 2% of the smelters. Only 4% of the smelters refused to participate in RMAP. The 2% of the reported SOR is determined by RMI to be non-conformant. The remaining 4% of reported smelters have a Not Applicable status according to the Smelter or Refiners Master tool issued by RMI.

Risks identified

The SOR status is constantly changing and updated in the RMI database. For the analysis the master data as of end of 2023 or later were used. Based on an evaluation of the data collected, the following risks in the supply chain have been identified:

- Not all suppliers have identified their SOR.
- Not all smelters are conformant.
- Not all smelters in the supply chain are involved in the RMAP.
- Some smelters are not interested in undergoing RMAP audit.
- Not applicable smelters in the SOR list.
- Missing responsible sourcing policy and due diligence measures.

Suppliers are grouped to risk levels according to the risks identified. Sandvik uses four risk levels – very-high, high, moderate and low. Suppliers with very-high and high risk levels are prioritized for risk mitigation.

Sandvik is committed to assess the entire supply chain therefore puts great importance on identifying all smelters. This is the only way to keep track of all the risks hence different kinds of training and discussions took place with purchasers and suppliers to explain to them the importance of identifying and assessing smelters and refiners.

The second equally important risk is smelters who were determined to be non-conformant to the RMAP audit standard.

Suppliers who have these smelters in their supply chain are at very high risk and Sandvik is working together with suppliers to eliminate those smelters from the supply chain in the shortest possible time.

As per OECD guidelines, Sandvik require independent third-party audits of smelters or refiners. Since Sandvik is member of RMI, it is preferred when the smelters become third-party assured against the RMI RMAP. All smelters with audit status outreach required, communication suspended, unable to proceed are encouraged through supply chain pressure to undergo and pass the audit.

If smelters classified as “not applicable” by RMI, the reason for this is investigated. The result of the investigation often reveals that the smelter is either a downstream company, an eligible Co refiner, or a facility that has suspended or ceased operations.

As part of the risk identification, not only SORs were assessed but also sourcing policies and due diligence measures were examined to verify if they were in line with OECD guidance for Responsible Supply Chains of Minerals from Conflict- Affected and High-Risk Areas.

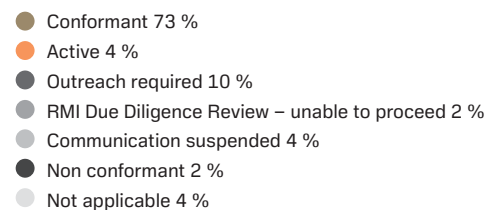
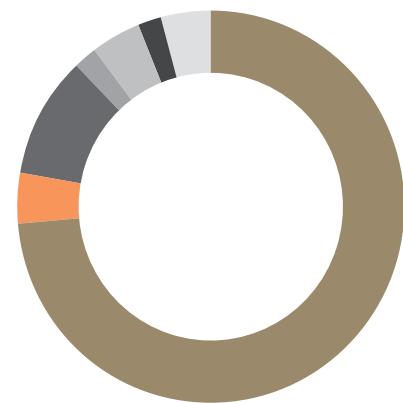
Comparison with 2022

Sandvik is working on continuous improvement both during the reporting period and year-on-year. In 2023, we increased the number of suppliers in scope by 12% for 3TG and 61% for cobalt. New suppliers were introduced to the conflict minerals due diligence exercise, engaging in training and preliminary communications. Although the response rate decreased, involving more suppliers enhances awareness and compliance across our supply chain.

In terms of audit status, the percentage of conformant smelters for 3TG remained the same despite the increase of suppliers in scope. Excellent results were achieved in the cobalt analysis where the conformant smelter rate increased by 5,5% despite a big increase in the number of suppliers.

Sandvik is constantly working with risk mitigation by monitoring and follow up on risks identified so the results continue to improve in the coming years.

Cobalt Smelters or Refiners RMAP status



4. Recycled material

The vast majority of the tungsten included as an essential component in Sandvik's products is derived from a mixture of primary and secondary (recycled) material, hence no specific due diligence to conclude exclusively recycled origin is required. Some applications contain tungsten exclusively from

the so-called zinc reclaim process (PRZ) which, due to the underlying technology that requires cemented tungsten carbide as input, can only be fed by selected hard metal scrap, and hence is of 100 % recycled origin.





5. Achievements and challenges

Sandvik's work with responsible sourcing for 3TG and cobalt and related due diligence activities aim to increase supply chain transparency and mitigate potential risks while encouraging continuous improvement in supplier performance. Sandvik takes an active role in industry forums to promote responsible sourcing of minerals and develop common industry tools and standards to scale impact, including from conflict affected and high-risk areas, either directly or through its subsidiaries. This includes memberships of the Responsible Minerals Initiative, the Cobalt Institute and The Tungsten Industry Conflict Minerals Council.

Throughout 2023, a number of trainings were conducted for employees working within the various business areas across

Sandvik. The trainings focused on updates on procedural enhancements, management system updates and on identifying risks and risk mitigation.

Sandvik conducts operations in three business areas therefore it is a challenge to align and to carry out due diligence in a coordinated manner to avoid any duplication of effort. Sandvik has found a way to collaborate within business areas and is constantly working on improving the process as well as the reporting system.



6. Looking forward/ next steps

All companies with the potential of having conflict minerals and cobalt in their supply chain need strong supply chain engagement, analysis and reporting. Sandvik will continue to work on improving responsible sourcing for 3TG and cobalt and the related risk assessment and supply chain mitigation process to ensure that all suppliers meet Sandvik's requirements. Efforts will continue to be made to identify suppliers in scope and improve the response rate from CMRT and CRT/EMRT suppliers by educating suppliers on how to respond to the supply chain surveys.

A key focus area throughout 2024 will be to continue working on risk mitigation plans and engage with stakeholders. Possible risks arising from the CMRT analysis will be described in detail. At the same time, follow-up steps will be determined on how to proceed to eliminate the given risks. This will ensure a unified approach, supplier involvement and compliance with the OECD

Due Diligence Guidance. The work on updating and implementing the Responsible Sourcing of minerals and metals procedure will also continue throughout the year.

During 2024 Sandvik, as a member of Responsible Minerals Initiatives (RMI), will continue to require its suppliers to ensure that the smelters and refiners in their supply chain are assessed as compliant with accepted third-party audit programs such as the Responsible Mineral Assurance Process (RMAP). Communication within the supply chain affects the smelters and refiners themselves. It is necessary to explain the importance to the suppliers and encourage them to work with their suppliers or directly with the smelters. Sandvik will provide trainings and support to suppliers to help them implement OECD due diligence. Also, the employees responsible for this process will continue to attend seminars, trainings and events that help them in the continuous improvement in this area.

Annex: Smelter and refiner list 2023

Standard Smelter Name	Smelter ID	Metal	Country Location
Agosi AG	CID000035	Gold	Germany
Argor-Heraeus S.A.	CID000077	Gold	Switzerland
Asahi Refining Canada Ltd.	CID000924	Gold	Canada
Aurubis AG	CID000113	Gold	Germany
C. Hafner GmbH + Co. KG	CID000176	Gold	Germany
Chimet S.p.A.	CID000233	Gold	Italy
Geib Refining Corporation	CID002459	Gold	United states of America
Heimerle + Meule GmbH	CID000694	Gold	Germany
Heraeus Germany GmbH Co. KG	CID000711	Gold	Germany
Heraeus Metals Hong Kong Ltd.	CID000707	Gold	China
Jiangxi Copper Co., Ltd.	CID000855	Gold	China
Kennecott Utah Copper LLC	CID000969	Gold	United states of America
Metalor Technologies (Hong Kong) Ltd.	CID001149	Gold	China
Metalor Technologies (Singapore) Pte., Ltd.	CID001152	Gold	Singapore
Metalor Technologies (Suzhou) Ltd.	CID001147	Gold	China
Metalor Technologies S.A.	CID001153	Gold	Switzerland
Metalor USA Refining Corporation	CID001157	Gold	United states of America
Metalurgica Met-Mex Penoles S.A. De C.V.	CID001161	Gold	Mexico
Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	CID002779	Gold	Austria
Royal Canadian Mint	CID001534	Gold	Canada
SEMPSA Joyeria Plateria S.A.	CID001585	Gold	Spain
Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CID001622	Gold	China
T.C.A S.p.A	CID002580	Gold	Italy
Umicore S.A. Business Unit Precious Metals Refining	CID001980	Gold	Belgium
United Precious Metal Refining, Inc.	CID001993	Gold	United states of America
WIELAND Edelmetalle GmbH	CID002778	Gold	Germany
Aida Chemical Industries Co., Ltd.	CID000019	Gold	Japan
AngloGold Ashanti Corrego do Sitio Mineracao	CID000058	Gold	Brazil
Asahi Pretec Corp.	CID000082	Gold	Japan
Asahi Refining USA Inc.	CID000920	Gold	United states of America
Asaka Riken Co., Ltd.	CID000090	Gold	Japan
Boliden Ronnskar	CID000157	Gold	Sweden
Dowa	CID000401	Gold	Japan
Eco-System Recycling Co., Ltd. East Plant	CID000425	Gold	Japan
Ishifuku Metal Industry Co., Ltd.	CID000807	Gold	Japan
Istanbul Gold Refinery	CID000814	Gold	Turkey
JX Nippon Mining & Metals Co., Ltd.	CID000937	Gold	Japan
Kojima Chemicals Co., Ltd.	CID000981	Gold	Japan
LS MnM Inc.	CID001078	Gold	Korea, republic of
Materion	CID001113	Gold	United states of America
Matsuda Sangyo Co., Ltd.	CID001119	Gold	Japan
Mitsubishi Materials Corporation	CID001188	Gold	Japan
Mitsui Mining and Smelting Co., Ltd.	CID001193	Gold	Japan

Standard Smelter Name	Smelter ID	Metal	Country Location
MKS PAMP SA	CID001352	Gold	Switzerland
Nihon Material Co., Ltd.	CID001259	Gold	Japan
Rand Refinery (Pty) Ltd.	CID001512	Gold	South africa
Solar Applied Materials Technology Corp.	CID001761	Gold	Taiwan, province of china
Sumitomo Metal Mining Co., Ltd.	CID001798	Gold	Japan
Tanaka Kikinzoku Kogyo K.K.	CID001875	Gold	Japan
Tokuriki Honten Co., Ltd.	CID001938	Gold	Japan
Western Australian Mint (T/a The Perth Mint)	CID002030	Gold	Australia
Valcambi S.A.	CID002003	Gold	Switzerland
8853 S.p.A.	CID002763	Gold	Italy
ABC Refinery Pty Ltd.	CID002920	Gold	Australia
Abington Reldan Metals, LLC	CID002708	Gold	United states of America
Advanced Chemical Company	CID000015	Gold	United states of America
African Gold Refinery	CID003185	Gold	Uganda
Al Etihad Gold Refinery DMCC	CID002560	Gold	United arab emirates
Albino Mountinho Lda.	CID002760	Gold	Portugal
Alexy Metals	CID003500	Gold	United states of America
Almalyk Mining and Metallurgical Complex (AMMC)	CID000041	Gold	Uzbekistan
Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	CID000103	Gold	Turkey
AU Traders and Refiners	CID002850	Gold	South africa
Augmont Enterprises Private Limited	CID003461	Gold	India
Bangalore Refinery	CID002863	Gold	India
Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	CID000128	Gold	Philippines
Caridad	CID000180	Gold	Mexico
CCR Refinery - Glencore Canada Corporation	CID000185	Gold	Canada
Cendres + Metaux S.A.	CID000189	Gold	Switzerland
CGR Metalloys Pvt Ltd.	CID003382	Gold	India
Chugai Mining	CID000264	Gold	Japan
Coimpa Industrial LTDA	CID004010	Gold	Brazil
Daye Non-Ferrous Metals Mining Ltd.	CID000343	Gold	China
Degussa Sonne / Mond Goldhandel GmbH	CID002867	Gold	Germany
Dijllah Gold Refinery FZC	CID003348	Gold	United arab emirates
Dongwu Gold Group	CID003663	Gold	China
DSC (Do Sung Corporation)	CID000359	Gold	Korea, republic of
Eco-System Recycling Co., Ltd. North Plant	CID003424	Gold	Japan
Eco-System Recycling Co., Ltd. West Plant	CID003425	Gold	Japan
Emerald Jewel Industry India Limited (Unit 1)	CID003487	Gold	India
Emerald Jewel Industry India Limited (Unit 2)	CID003488	Gold	India
Emerald Jewel Industry India Limited (Unit 3)	CID003489	Gold	India
Emerald Jewel Industry India Limited (Unit 4)	CID003490	Gold	India
Emirates Gold DMCC	CID002561	Gold	United arab emirates
Fidelity Printers and Refiners Ltd.	CID002515	Gold	Zimbabwe
Fujairah Gold FZC	CID002584	Gold	United arab emirates
GGC Gujrat Gold Centre Pvt. Ltd.	CID002852	Gold	India
Gold by Gold Colombia	CID003641	Gold	Colombia
Gold Coast Refinery	CID003186	Gold	Ghana
Gold Refinery of Zijin Mining Group Co., Ltd.	CID002243	Gold	China
Great Wall Precious Metals Co., Ltd. of CBPM	CID001909	Gold	China
Guangdong Jinding Gold Limited	CID002312	Gold	China

Standard Smelter Name	Smelter ID	Metal	Country Location
Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CID000651	Gold	China
Hangzhou Fuchunjiang Smelting Co., Ltd.	CID000671	Gold	China
Hunan Chenzhou Mining Co., Ltd.	CID000767	Gold	China
Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd.	CID000773	Gold	China
HwaSeong CJ CO., LTD.	CID000778	Gold	Korea, republic of
Industrial Refining Company	CID002587	Gold	Belgium
Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CID000801	Gold	China
International Precious Metal Refiners	CID002562	Gold	United arab emirates
Italpreziosi	CID002765	Gold	Italy
JALAN & Company	CID002893	Gold	India
Japan Mint	CID000823	Gold	Japan
JSC Ekaterinburg Non-Ferrous Metal Processing Plant	CID000927	Gold	Russian Federation
JSC Novosibirsk Refinery	CID000493	Gold	Russian Federation
JSC Uralelectromed	CID000929	Gold	Russian Federation
K.A. Rasmussen	CID003497	Gold	Norway
Kaloti Precious Metals	CID002563	Gold	United arab emirates
Kazakhmys Smelting LLC	CID000956	Gold	Kazakhstan
Kazzinc	CID000957	Gold	Kazakhstan
KGHM Polska Miedz Spolka Akcyjna	CID002511	Gold	Poland
Korea Zinc Co., Ltd.	CID002605	Gold	Korea, republic of
Kundan Care Products Ltd.	CID003463	Gold	India
Kyrgyzaltyn JSC	CID001029	Gold	Kyrgyzstan
Kyshtym Copper-Electrolytic Plant ZAO	CID002865	Gold	Russian Federation
L'azurde Company For Jewelry	CID001032	Gold	Saudi arabia
Lingbao Gold Co., Ltd.	CID001056	Gold	China
Lingbao Jinyuan Tonghui Refinery Co., Ltd.	CID001058	Gold	China
L'Orfebre S.A.	CID002762	Gold	Andorra
LT Metal Ltd.	CID000689	Gold	Korea, republic of
Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	CID001093	Gold	China
Marsam Metals	CID002606	Gold	Brazil
MD Overseas	CID003548	Gold	India
Metal Concentrators SA (Pty) Ltd.	CID003575	Gold	South africa
Metallix Refining Inc.	CID003557	Gold	United states of America
MMTC-PAMP India Pvt., Ltd.	CID002509	Gold	India
Modeltech Sdn Bhd	CID002857	Gold	Malaysia
Morris and Watson	CID002282	Gold	New zealand
Moscow Special Alloys Processing Plant	CID001204	Gold	Russian Federation
Nadir Metal Rafineri San. Ve Tic. A.S.	CID001220	Gold	Turkey
Navoi Mining and Metallurgical Combinat	CID001236	Gold	Uzbekistan
NH Recytech Company	CID003189	Gold	Korea, republic of
Ohura Precious Metal Industry Co., Ltd.	CID001325	Gold	Japan
OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	CID001326	Gold	Russian Federation
Pease & Curren	CID002872	Gold	United states of America
Penglai Penggang Gold Industry Co., Ltd.	CID001362	Gold	China
Planta Recuperadora de Metales SpA	CID002919	Gold	Chile
Prioksky Plant of Non-Ferrous Metals	CID001386	Gold	Russian Federation
PT Aneka Tambang (Persero) Tbk	CID001397	Gold	Indonesia
PX Precinox S.A.	CID001498	Gold	Switzerland
QG Refining, LLC	CID003324	Gold	United states of America

Standard Smelter Name	Smelter ID	Metal	Country Location
Refinery of Seemine Gold Co., Ltd.	CID000522	Gold	China
REMONDIS PMR B.V.	CID002582	Gold	Netherlands
SAAMP	CID002761	Gold	France
Sabin Metal Corp.	CID001546	Gold	United states of America
Safimet S.p.A	CID002973	Gold	Italy
SAFINA A.S.	CID002290	Gold	Czechia
Sai Refinery	CID002853	Gold	India
Sam Precious Metals	CID003666	Gold	United arab emirates
Samduck Precious Metals	CID001555	Gold	Korea, republic of
Samwon Metals Corp.	CID001562	Gold	Korea, republic of
Shandong Gold Smelting Co., Ltd.	CID001916	Gold	China
Shandong Humon Smelting Co., Ltd.	CID002525	Gold	China
Shandong Tiancheng Biological Gold Industrial Co., Ltd.	CID001619	Gold	China
Shenzhen CuiLu Gold Co., Ltd.	CID002750	Gold	China
Shenzhen Zhonghenglong Real Industry Co., Ltd.	CID002527	Gold	China
Shirpur Gold Refinery Ltd.	CID002588	Gold	India
Sichuan Tianze Precious Metals Co., Ltd.	CID001736	Gold	China
Singway Technology Co., Ltd.	CID002516	Gold	Taiwan, province of china
SOE Shyolkovsky Factory of Secondary Precious Metals	CID001756	Gold	Russian Federation
Sovereign Metals	CID003383	Gold	India
State Research Institute Center for Physical Sciences and Technology	CID003153	Gold	Lithuania
Sudan Gold Refinery	CID002567	Gold	Sudan
SungEel HiMetal Co., Ltd.	CID002918	Gold	Korea, republic of
Super Dragon Technology Co., Ltd.	CID001810	Gold	Taiwan, province of china
Tongling Nonferrous Metals Group Co., Ltd.	CID001947	Gold	China
TOO Tau-Ken-Altyn	CID002615	Gold	Kazakhstan
Torecom	CID001955	Gold	Korea, republic of
Umicore Precious Metals Thailand	CID002314	Gold	Thailand
WEEEREFINING	CID003615	Gold	France
Yamakin Co., Ltd.	CID002100	Gold	Japan
Yokohama Metal Co., Ltd.	CID002129	Gold	Japan
Yunnan Copper Industry Co., Ltd.	CID000197	Gold	China
Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CID002224	Gold	China
AMG Brasil	CID001076	Tantalum	Brazil
Changsha South Tantalum Niobium Co., Ltd.	CID000211	Tantalum	China
D Block Metals, LLC	CID002504	Tantalum	United states of America
F&X Electro-Materials Ltd.	CID000460	Tantalum	China
FIR Metals & Resource Ltd.	CID002505	Tantalum	China
Global Advanced Metals Boyertown	CID002557	Tantalum	United states of America
Guangdong Zhiyuan New Material Co., Ltd.	CID000616	Tantalum	China
Hengyang King Xing Lifeng New Materials Co., Ltd.	CID002492	Tantalum	China
Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CID002512	Tantalum	China
Jiangxi Tuohong New Raw Material	CID002842	Tantalum	China
JiuJiang JinXin Nonferrous Metals Co., Ltd.	CID000914	Tantalum	China
Jiujiang Nonferrous Metals Smelting Company Limited	CID000917	Tantalum	China
Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CID002506	Tantalum	China
KEMET de Mexico	CID002539	Tantalum	Mexico
Materion Newton Inc.	CID002548	Tantalum	United states of America
Metallurgical Products India Pvt., Ltd.	CID001163	Tantalum	India

Standard Smelter Name	Smelter ID	Metal	Country Location
Mineracao Taboca S.A.	CID001175	Tantalum	Brazil
Mitsui Mining and Smelting Co., Ltd.	CID001192	Tantalum	Japan
Ningxia Orient Tantalum Industry Co., Ltd.	CID001277	Tantalum	China
NPM Silmet AS	CID001200	Tantalum	Estonia
Resind Industria e Comercio Ltda.	CID002707	Tantalum	Brazil
RFH Yancheng Jinye New Material Technology Co., Ltd.	CID003583	Tantalum	China
TANIOBIS Co., Ltd.	CID002544	Tantalum	Thailand
TANIOBIS GmbH	CID002545	Tantalum	Germany
TANIOBIS Japan Co., Ltd.	CID002549	Tantalum	Japan
TANIOBIS Smelting GmbH & Co. KG	CID002550	Tantalum	Germany
Telex Metals	CID001891	Tantalum	United states of America
Ulba Metallurgical Plant JSC	CID001969	Tantalum	Kazakhstan
XinXing HaoRong Electronic Material Co., Ltd.	CID002508	Tantalum	China
Yanling Jincheng Tantalum & Niobium Co., Ltd.	CID001522	Tantalum	China
QuantumClean	CID001508	Tantalum	United states of America
Taki Chemical Co., Ltd.	CID001869	Tantalum	Japan
Global Advanced Metals Aizu	CID002558	Tantalum	Japan
5D Production OU	CID003926	Tantalum	Estonia
Guangdong Rising Rare Metals-EO Materials Ltd.	CID000291	Tantalum	China
PowerX Ltd.	CID004054	Tantalum	Rwanda
Solikamsk Magnesium Works OAO	CID001769	Tantalum	Russian Federation
QSiL Metals Hermsdorf GmbH	CID002547	Tantalum	Germany
Alpha	CID000292	Tin	United states of America
Aurubis Beerse	CID002773	Tin	Belgium
Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CID000228	Tin	China
Chifeng Dajingzi Tin Industry Co., Ltd.	CID003190	Tin	China
China Tin Group Co., Ltd.	CID001070	Tin	China
CV Venus Inti Perkasa	CID002455	Tin	Indonesia
Dowa	CID000402	Tin	Japan
EM Vinto	CID000438	Tin	Bolivia (plurinational state of)
Fabrica Auricchio Industria e Comercio Ltda.	CID003582	Tin	Brazil
Fenix Metals	CID000468	Tin	Poland
Gejiu Non-Ferrous Metal Processing Co., Ltd.	CID000538	Tin	China
Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CID003116	Tin	China
Jiangxi New Nanshan Technology Ltd.	CID001231	Tin	China
Luna Smelter, Ltd.	CID003387	Tin	Rwanda
Magnu's Minerai's Metais e Ligas Ltda.	CID002468	Tin	Brazil
Malaysia Smelting Corporation (MSC)	CID001105	Tin	Malaysia
Metallic Resources, Inc.	CID001142	Tin	United states of America
Metallo Spain S.L.U.	CID002774	Tin	Spain
Mineracao Taboca S.A.	CID001173	Tin	Brazil
Minsur	CID001182	Tin	Peru
Mitsubishi Materials Corporation	CID001191	Tin	Japan
O.M. Manufacturing (Thailand) Co., Ltd.	CID001314	Tin	Thailand
O.M. Manufacturing Philippines, Inc.	CID002517	Tin	Philippines
OMSA	CID001337	Tin	Bolivia (plurinational state of)
PT Artha Cipta Langgeng	CID001399	Tin	Indonesia
PT ATD Makmur Mandiri Jaya	CID002503	Tin	Indonesia
PT Babel Surya Alam Lestari	CID001406	Tin	Indonesia

Standard Smelter Name	Smelter ID	Metal	Country Location
PT Bangka Serumpun	CID003205	Tin	Indonesia
PT Menara Cipta Mulia	CID002835	Tin	Indonesia
PT Mitra Stania Prima	CID001453	Tin	Indonesia
PT Mitra Sukses Globalindo	CID003449	Tin	Indonesia
PT Prima Timah Utama	CID001458	Tin	Indonesia
PT Refined Bangka Tin	CID001460	Tin	Indonesia
PT Stanindo Inti Perkasa	CID001468	Tin	Indonesia
PT Timah Tbk Kundur	CID001477	Tin	Indonesia
PT Timah Tbk Mentok	CID001482	Tin	Indonesia
PT Tinindo Inter Nusa	CID001490	Tin	Indonesia
Resind Industria e Comercio Ltda.	CID002706	Tin	Brazil
Rui Da Hung	CID001539	Tin	Taiwan, province of china
Super Ligas	CID002756	Tin	Brazil
Thaisarco	CID001898	Tin	Thailand
Tin Smelting Branch of Yunnan Tin Co., Ltd.	CID002180	Tin	China
Tin Technology & Refining	CID003325	Tin	United states of America
White Solder Metalurgica	CID002036	Tin	Brazil
Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CID002158	Tin	China
CRM Synergies	CID003524	Tin	Spain
PT Putera Sarana Shakti (PT PSS)	CID003868	Tin	Indonesia
PT Aries Kencana Sejahtera	CID000309	Tin	Indonesia
Takehara pvd materials plant/pvd materials division of mitsui mining & smelting co., Ltd.	CID004403	Tin	Japan
Tuyen Quang Non-Ferrous Metals Joint Stock Company	CID002574	Tin	Viet nam
VQB Mineral and Trading Group JSC	CID002015	Tin	Viet nam
Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CID003397	Tin	China
PT Bukit Timah	CID001428	Tin	Indonesia
PT Sariwiguna Binasentosa	CID001463	Tin	Indonesia
PT Sukses Inti Makmur	CID002816	Tin	Indonesia
PT Rajawali Rimba Perkasa	CID003381	Tin	Indonesia
Mining Minerals Resources SARL	CID004065	Tin	Congo, democratic republic of the
PT Premium Tin Indonesia	CID000313	Tin	Indonesia
Estanho de Rondonia S.A.	CID000448	Tin	Brazil
PT Babel Inti Perkasa	CID001402	Tin	Indonesia
PT Rajehan Ariq	CID002593	Tin	Indonesia
PT Cipta Persada Mulia	CID002696	Tin	Indonesia
HuiChang Hill Tin Industry Co., Ltd.	CID002844	Tin	China
Melt Metais e Ligas S.A.	CID002500	Tin	Brazil
Gejiu Zili Mining And Metallurgy Co., Ltd.	CID000555	Tin	China
Soft Metais Ltda.	CID001758	Tin	Brazil
Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CID001908	Tin	China
Modeltech Sdn Bhd	CID002858	Tin	Malaysia
Gejiu Kai Meng Industry and Trade LLC	CID000942	Tin	China
Ma'anshan Weitai Tin Co., Ltd.	CID003379	Tin	China
PT Panca Mega Persada	CID001457	Tin	Indonesia
DS Myanmar	CID003831	Tin	Myanmar
PT Belitung Industri Sejahtera	CID001421	Tin	Indonesia
PT Timah Nusantara	CID001486	Tin	Indonesia
PT Tommy Utama	CID001493	Tin	Indonesia
Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Co.	CID002572	Tin	Viet nam

Standard Smelter Name	Smelter ID	Metal	Country Location
Nghe Tinh Non-Ferrous Metals Joint Stock Company	CID002573	Tin	Viet nam
An Vinh Joint Stock Mineral Processing Company	CID002703	Tin	Viet nam
Pongpipat Company Limited	CID003208	Tin	Myanmar
Dongguan CiEXPO Environmental Engineering Co., Ltd.	CID003356	Tin	China
Precious Minerals and Smelting Limited	CID003409	Tin	India
Gejiu City Fuxiang Industry and Trade Co., Ltd.	CID003410	Tin	China
CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	CID003486	Tin	Brazil
A.L.M.T. TUNGSTEN Corp.	CID000004	Tungsten	Japan
Asia Tungsten Products Vietnam Ltd.	CID002502	Tungsten	Viet nam
China Molybdenum Tungsten Co., Ltd.	CID002641	Tungsten	China
Cronimet Brasil Ltda	CID003468	Tungsten	Brazil
Fujian Ganmin RareMetal Co., Ltd.	CID003401	Tungsten	China
Fujian Xinlu Tungsten Co., Ltd.	CID003609	Tungsten	China
Ganzhou Haichuang Tungsten Co., Ltd.	CID002645	Tungsten	China
Ganzhou Huaxing Tungsten Products Co., Ltd.	CID000875	Tungsten	China
Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CID002315	Tungsten	China
Ganzhou Seadragon W & Mo Co., Ltd.	CID002494	Tungsten	China
Global Tungsten & Powders LLC	CID000568	Tungsten	United states of America
Guangdong Xianglu Tungsten Co., Ltd.	CID000218	Tungsten	China
H.C. Starck Tungsten GmbH	CID002541	Tungsten	Germany
Hubei Green Tungsten Co., Ltd.	CID003417	Tungsten	China
Hunan Chenzhou Mining Co., Ltd.	CID000766	Tungsten	China
Hunan Shizhuyuan Nonferrous Metals Co., Ltd. Chenzhou Tungsten Products Branch	CID002513	Tungsten	China
Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CID002551	Tungsten	China
Jiangxi Gan Bei Tungsten Co., Ltd.	CID002321	Tungsten	China
Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CID002318	Tungsten	China
Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CID002317	Tungsten	China
Jiangxi Yaosheng Tungsten Co., Ltd.	CID002316	Tungsten	China
Kennametal Huntsville	CID000105	Tungsten	United states of America
Lianyou Metals Co., Ltd.	CID003407	Tungsten	Taiwan, province of china
Malipo Haiyu Tungsten Co., Ltd.	CID002319	Tungsten	China
Masan High-Tech Materials	CID002543	Tungsten	Viet nam
Niagara Refining LLC	CID002589	Tungsten	United states of America
Shinwon Tungsten (Fujian Shanghang) Co., Ltd.	CID004430	Tungsten	China
TANIOBIS Smelting GmbH & Co. KG	CID002542	Tungsten	Germany
Tungsten Vietnam Joint Stock Company	CID003993	Tungsten	Viet nam
Wolfram Bergbau und Hutten AG	CID002044	Tungsten	Austria
Xiamen Tungsten (H.C.) Co., Ltd.	CID002320	Tungsten	China
Xiamen Tungsten Co., Ltd.	CID002082	Tungsten	China
Zhangyuan Tungsten Co Ltd	CID000258	Tungsten	China
Japan New Metals Co., Ltd.	CID000825	Tungsten	Japan
Kennametal Fallon	CID000966	Tungsten	United states of America
Philippine Chuangxin Industrial Co., Inc.	CID002827	Tungsten	Philippines
ACL Metais Eireli	CID002833	Tungsten	Brazil
Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.	CID003427	Tungsten	Brazil
Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CID002830	Tungsten	China
Hydrometallurg, JSC	CID002649	Tungsten	Russian Federation
Unecha Refractory metals plant	CID002724	Tungsten	Russian Federation
JSC "Kirovgrad Hard Alloys Plant"	CID003408	Tungsten	Russian Federation

Standard Smelter Name	Smelter ID	Metal	Country Location
Artek LLC	CID003553	Tungsten	Russian Federation
CNMC (Guangxi) PGMA Co., Ltd.	CID000281	Tungsten	China
Woltech Korea Co., Ltd.	CID002843	Tungsten	Korea, republic of
HANNAE FOR T Co., Ltd.	CID003978	Tungsten	Korea, republic of
Hunan Jintai New Material Co., Ltd.	CID000769	Tungsten	China
Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.	CID002313	Tungsten	China
Lianyou Resources Co., Ltd.	CID004397	Tungsten	Taiwan, province of china
LLC Vostok	CID003643	Tungsten	Russian Federation
Moliren Ltd.	CID002845	Tungsten	Russian Federation
Nam Viet Cromit Joint Stock Company	CID004034	Tungsten	Viet nam
NPP Tyazhmetprom LLC	CID003416	Tungsten	Russian Federation
OOO "Technolom" 1	CID003614	Tungsten	Russian Federation
OOO "Technolom" 2	CID003612	Tungsten	Russian Federation
YUDU ANSHENG TUNGSTEN CO., LTD.	CID003662	Tungsten	China
Anhui Hanrui New Material Co., Ltd.	CID003927	Cobalt	China
Chizhou CN New Materials and Technology Co., Ltd.	CID003481	Cobalt	China
Compagnie de Tifnout Tiranimine	CID003280	Cobalt	Morocco
CoreMax Corporation	CID003473	Cobalt	Taiwan, province of china
Cosmo Chemical, Ltd.	CID003415	Cobalt	Korea, republic of
Dynatec Madagascar Company	CID003232	Cobalt	Madagascar
Fort Saskatchewan Metals Facility	CID003242	Cobalt	Canada
Gangzhou Yi Hao Umicore Industry Co.	CID003227	Cobalt	China
Ganzhou Highpower Technology Co., Ltd.	CID003384	Cobalt	China
Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CID003212	Cobalt	China
Gem (Jiangsu) Cobalt Industry Co., Ltd.	CID003209	Cobalt	China
Glencore Nikkelverk Refinery	CID003403	Cobalt	Norway
Guangdong Jiana Energy Technology Co., Ltd.	CID003291	Cobalt	China
Guangxi Yinyi Advanced Material Co., Ltd.	CID003213	Cobalt	China
Guizhou CNGR Resource Recycling Industry Development Co., Ltd.	CID003610	Cobalt	China
Hunan CNGR New Energy Science & Technology Co., Ltd.	CID003411	Cobalt	China
Hunan Yacheng New Materials Co., Ltd.	CID003404	Cobalt	China
ICoNiChem	CID003491	Cobalt	United kingdom of great britain and northern ireland
Jiangsu Xiongfeng Technology Co., Ltd.	CID003293	Cobalt	China
Jiangxi Jiangwu Cobalt Industrial Co., Ltd.	CID003377	Cobalt	China
Jingmen GEM Co., Ltd.	CID003378	Cobalt	China
Kamoto Copper Company	CID003261	Cobalt	Congo, democratic republic of the
La Compagnie de Traitement des Rejets de Kingamyambo S.A. (Metalkol S.A.)	CID003275	Cobalt	Congo, democratic republic of the
Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CID003210	Cobalt	China
Mechema Taiwan Plant 2	CID003534	Cobalt	Taiwan, province of china
METAL MINES SARL	CID003385	Cobalt	Congo, democratic republic of the
Mine de Bou-Azzer	CID003279	Cobalt	Morocco
Murrin Murrin Nickel Cobalt Plant	CID003406	Cobalt	Australia
Mutanda Mining SPRL	CID003301	Cobalt	Congo, democratic republic of the
Nanjing Hanrui Cobalt	CID003252	Cobalt	China
Nantong Xinwei Nickel Cobalt Technology Development Co., Ltd.	CID003221	Cobalt	China
Niihama Nickel Refinery, Sumitomo Metal Mining	CID003278	Cobalt	Japan
NORILSK NICKEL HARJAVALTA OY	CID003390	Cobalt	Finland
Port Colborne Refinery	CID003239	Cobalt	Canada
Quzhou Huayou Cobalt New Material Co., Ltd.	CID003255	Cobalt	China

Standard Smelter Name	Smelter ID	Metal	Country Location
Shu Powders Ltd.	CID003309	Cobalt	South africa
SungEel HiTech Co., Ltd.	CID003338	Cobalt	Korea, republic of
Tenke Fungurume Mining SA	CID003429	Cobalt	Congo, democratic republic of the
Umicore Finland Oy	CID003226	Cobalt	Finland
Umicore Olen	CID003228	Cobalt	Belgium
Vale – Long Harbour Processing Plant (LHPP)	CID003584	Cobalt	Canada
Vale New Caledonia	CID003303	Cobalt	New caledonia
Zhejiang Greatpower Cobalt Materials Co., Ltd.	CID003526	Cobalt	China
Zhejiang Huayou Cobalt Company Limited	CID003225	Cobalt	China
Zhejiang New Era Zhongneng Technology Co., Ltd.	CID003398	Cobalt	China
Harima Refinery, Sumitomo Metal Mining	CID003577	Cobalt	Japan
XTC New Energy Materials (Xiamen) LTD.	CID003376	Cobalt	China
Chemaf Etoile	CID003264	Cobalt	Congo, democratic republic of the
Chambishi Metals, PLC	CID003286	Cobalt	Zambia

