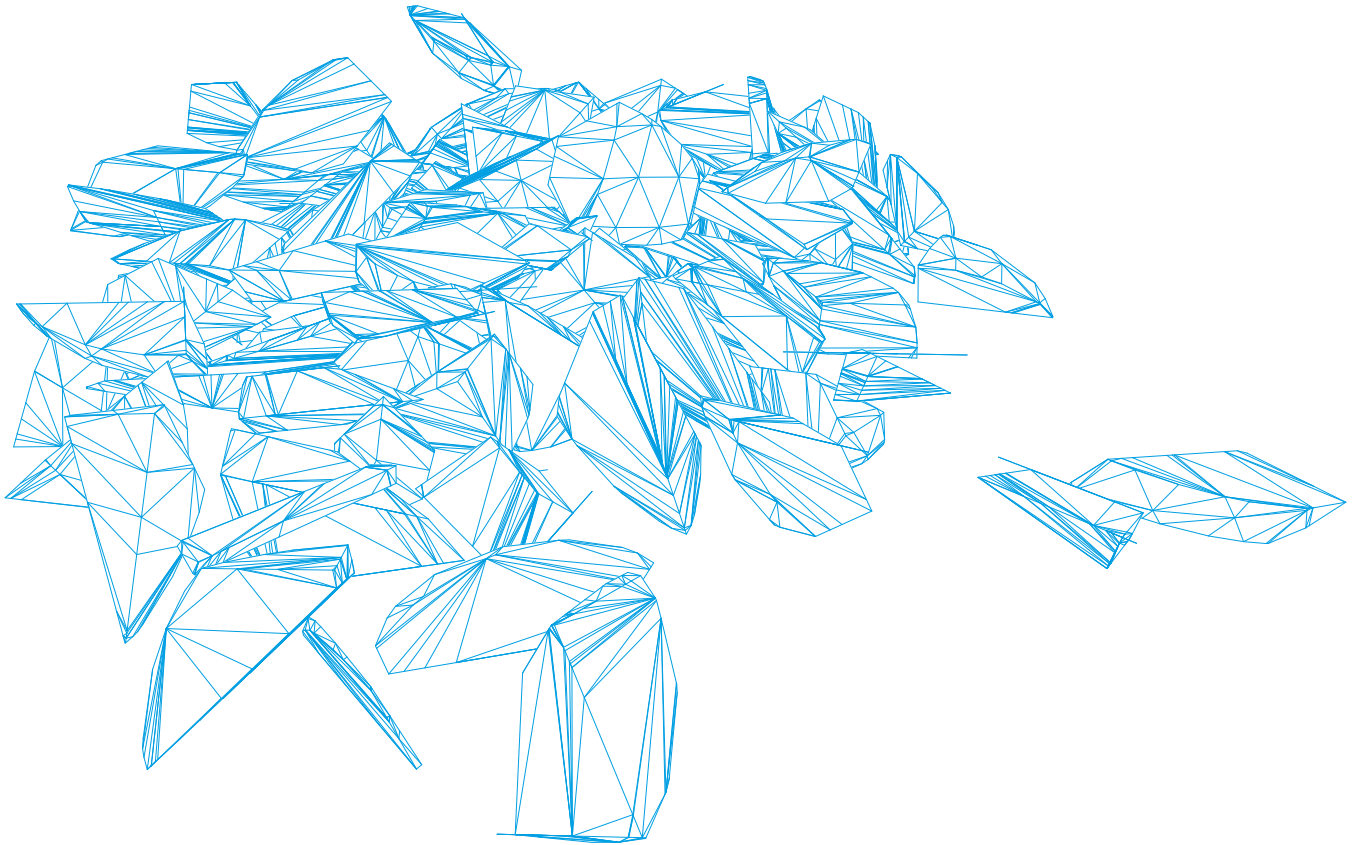


# RESPONSIBLE SOURCING OF MINERALS AND METALS

REPORT 2022



# SUMMARY

This report describes Sandvik's due diligence process for the responsible sourcing of minerals and metals that are contained in the products put 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. On an annual basis, suppliers are required to populate the Conflict Minerals Reporting Template (CMRT) and Extended Minerals Reporting Template (EMRT), followed by a process of which their responses are analyzed, validated and supplier risks identified.

This report covers the reporting period from January to December 2022. The report highlights Sandvik's activities and due diligence process. During this period Sandvik identified 122 suppliers as being in scope for 3TG and 75 suppliers in scope for cobalt across its three Business areas. While Sandvik received a response rate of 93 % on the CMRT's and 84 % 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 work with due diligence in 2013, in part due to its ongoing engagement with suppliers to help them meet its responsible sourcing requirements.

As part of the ongoing efforts regarding responsible sourcing of minerals and metals, the business areas Sandvik Mining and Rock Solutions and Sandvik Rock Processing Solutions initiated a pilot to further improve the governance and due diligence of the 3TG supply. A dedicated working group have set up a roadmap and selected divisions have started their supply chain surveys. The result is reflected in this report. Training targeting sourcing and procurement personnel has been performed and further capacity building around the OECD due diligence framework and Sandvik governance will continue, together with expansion of scope of the supply chain and strengthening performance.

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# 1. INTRODUCTION

## 1.1 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 2022, Sandvik had approximately 40.000 employees and sales in about 150 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 statement](#), reports annually according to the OECD Step 5 guideline [Wolfram Due Diligence Report for Mineral Supplies 2022](#), 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.

## 1.2 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 frame-

work that is aligned with the United Nations Guiding principles on business and human rights (UNGPs), 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 CAHRA<sup>1</sup>. Several 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 Diligence<sup>2</sup> 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 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.

In 2022, Sandvik started a project with the advisory and audit firm RCS Global Ltd. with the purpose of reviewing its responsible sourcing for 3TG and cobalt for alignment with the OECD Due Diligence Guidance, external and internal rules including the Responsible Sourcing of Minerals Procedure and Statement and the EU Conflict Minerals Regulation (2017/821). As part of the project review, the due diligence management system was updated as well as the Responsible Sourcing of Minerals and Metals Procedure. The updated procedure presented a new governance structure highlighting a responsible sourcing of minerals and metals working group, which consists of representatives from Sandvik's Business Areas, that together with division lead/ procurement within each division will report to senior management. At the end of the project, a mock audit was performed with the objective of identifying any remaining gaps. The mock audit resulted in minor findings showing a few gaps related to OECD step 1 Establish strong management systems and step 3 Risk mitigation.

<sup>2</sup> [OECD - Mineral Supply Chain \(duediligenceguidance.org\)](https://www.oecd.org/due-diligence/)

## **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 (SOR), 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 a 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, 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 requires 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.

The determination of the risk level will 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.

## **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. Very high- and high-risk suppliers had the highest priority in risk mitigation. Suppliers were asked to provide a complete Smelters and Refiners (SOR) list in their CMRT/EMRT or to improve the completeness of their response. Subsequently emphasis was put on Non Conformant smelters in provided 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 to meet the expectations set out in the Supplier Code of Conduct. There are requirements for suppliers to have established a 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.

As a consequence of Russia's war in Ukraine, Sandvik paused its business activities in Russia on February 28, 2022. On June 29, 2022, Sandvik communicated its decision to wind down operations in Russia. Suppliers with Russian smelters in their CMRT and EMRTs declarations has been requested to confirm no longer having Russian smelters in their supply chain since sanctions started.

#### **STEP 4: THIRD PARTY ASSURANCE AT IDENTIFIED POINTS IN THE SUPPLY CHAIN**

As a downstream company, Sandvik regularly engages with its first-tier suppliers 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 recent assessment was conducted by ARCHE Advisors for the assessment period 06/01/2021 - 06/30/2022 and concluded without findings. Minor improvement suggestions have been implemented in Wolfram's management system since the assessment.

#### **STEP 5: PUBLICLY REPORT ON DUE DILIGENCE**

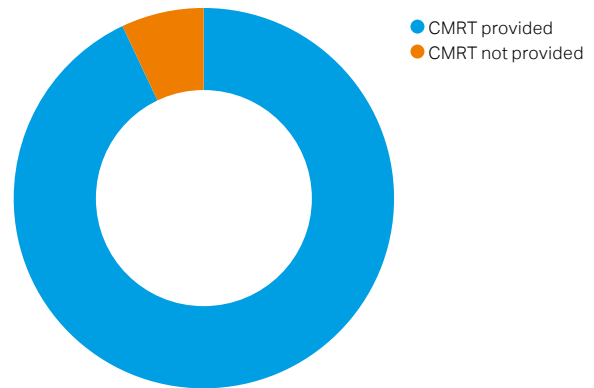
In accordance with OECD step 5, Sandvik present activities and results on due diligence. This report is available on the company website and on the Sandvik intranet.

# 3. RESULTS OF 2022 SUPPLY CHAIN RISK ASSESSMENT

During the reporting period, Sandvik identified a total of 122 suppliers as being in-scope for 3TG and 75 for cobalt across its three Business areas. The suppliers were contacted and requested to complete the CMRT and EMRT.

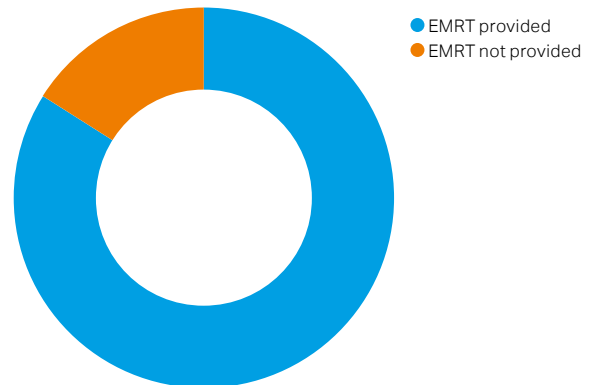
Sandvik achieved a 93 % response rate on the CMRT survey with 3TG suppliers reporting 350 SORs in their supply chain.

CMRT response rate



Sandvik achieved a 84 % response rate on the EMRT survey. Cobalt suppliers reported 37 SORs in their supply chain.

EMRT response rate



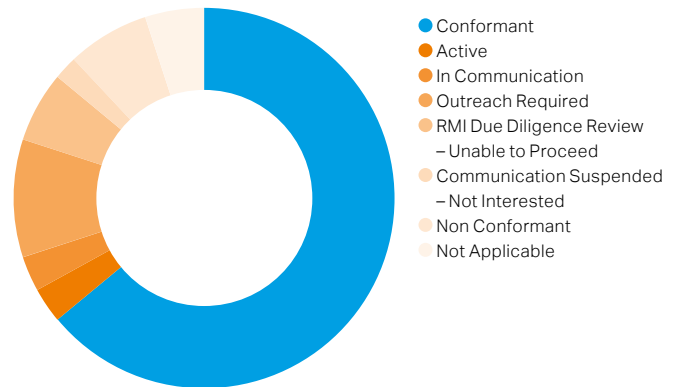


### 3.1 ASSESSMENT OF SMELTERS AND REFINERS

#### 3TG SUPPLY CHAIN

According to the 3TG supply chain analysis made, using the SOR master tool issued by RMI, Sandvik can state that 64 % of the smelters in the supply chain have Conformant status. 2.5 % of the smelters have Active status and 3 % of the smelters have the status in communication. For 11 % of smelters, outreach is required – the supplier should contact smelter and require RMAP participation. RMI Due Diligence Review were unable to proceed 6 % of the smelters. Only 2 % of the smelters refused to participate in RMAP. For 5 % of the smelters, the audit is no longer required due to suspension or closure of operations – Not Applicable status. During analysis it was found out that 6.5 % on Non Conformant smelters were used.

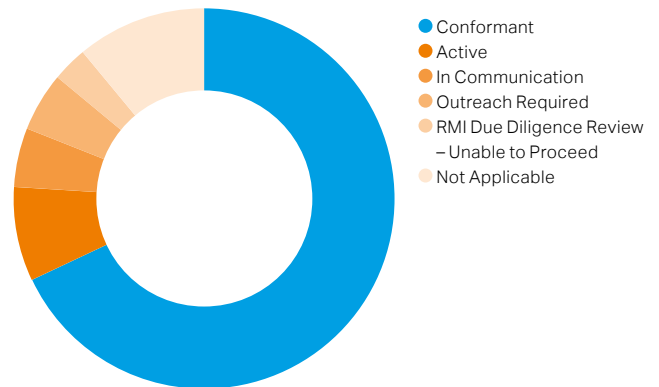
3TG Smelters or Refiners RMAP status



#### COBALT SUPPLY CHAIN

As part of the Cobalt supply chain analysis, 68 % of the smelters have been identified as Conformant and 8 % as Active. Furthermore, 5 % of smelters are in communication with RMAP and/or member companies. For 5 % 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 3 % of the smelters. The remaining 11 % of reported smelters have a Not Applicable status according to the SOR master tool issued by RMI.

Cobalt Smelters or Refiners RMAP status



A number of suppliers have not identified all smelters in scope. Sandvik is committed to full transparency in our supply chain and will work continuously to identify all relevant suppliers, smelters and relevant actors, improving processes and stakeholder engagement as we go along.

#### RISKS IDENTIFIED

Based on an evaluation of the data collected, the following risks in the supply chain have been identified:

- Not all suppliers have listed their SOR's.
- Not all smelters in the supply chain are involved in RMAP.
- Not all smelters are conformant.
- Smelters are not interested in undergoing RMAP.
- Russian smelters in the supply chain.
- Missing responsible sourcing policy and due diligence measures.

Sandvik prioritize suppliers with risk levels identified as high and very-high risk and is constantly working with risk mitigation by monitoring and follow up on risks identified. Due to an increasing number of suppliers in scope and more smelters identified, the number of Non conformant smelters have increased compared to year 2021, as well as numbers of suppliers with very high- and high-risk levels. Sandvik has worked on identifying all risks during the report period which is visible from increased response rate and numbers of SOR.

## 4. RECYCLED MATERIAL

Most 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 2022, a number of training courses were conducted for employees working within the various business areas across Sandvik. The training focused

on updates on procedural enhancements, management system updates and on identifying risks and risk mitigation.

A key focus area throughout 2023 will be to continue work with risk mitigation plans, ensuring follow up on primarily very high- and high-risk suppliers. The work on updating and implementing the Responsible Sourcing of minerals and metals procedure will also continue throughout the year. Sandvik will persist to review its systems and processes on an annual basis and make improvements as necessary according to the OECD Due Diligence Guidance. An upcoming challenge will be for the three business areas within Sandvik to continue to align and to carry out due diligence in a coordinated manner to avoid any duplication of efforts.

## 6. LOOKING FORWARD/ NEXT STEPS

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.

As an important part of the due diligence process, Sandvik aims to ensure good and qualitative stakeholder engagement. As part of the 2023–24 roadmap, Sandvik will continue the work to identify relevant stakeholders and improve its stakeholder engagement strategy. A stakeholder mapping with the purpose of identifying key stakeholders is on the agenda for 2023. Mapping helps identify interests and risks, address sustainability concerns, promote transparency and facilitate collaboration.

# ANNEX: SMELTER AND REFINER LIST 2022

Standard Smelter Name	Smelter ID	Metal	Country Location
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
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 Tanbre Co., Ltd.	CID000917	Tantalum	China
Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CID002506	Tantalum	China
Metallurgical Products India Pvt., Ltd.	CID001163	Tantalum	India
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
TANIOBIS Co., Ltd.	CID002544	Tantalum	Thailand
TANIOBIS GmbH	CID002545	Tantalum	Germany
TANIOBIS Smelting GmbH & Co. KG	CID002550	Tantalum	Germany
Telex Metals	CID001891	Tantalum	United States of America
XIMEI RESOURCES (GUANGDONG) LIMITED	CID000616	Tantalum	China
XinXing HaoRong Electronic Material Co., Ltd.	CID002508	Tantalum	China
Yanling Jincheng Tantalum & Niobium Co., Ltd.	CID001522	Tantalum	China
A.L.M.T. Corp.	CID000004	Tungsten	Japan
China Molybdenum Tungsten Co., Ltd.	CID002641	Tungsten	China
Chongyi Zhangyuan Tungsten Co., Ltd.	CID000258	Tungsten	China
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 Corp.	CID000568	Tungsten	United States of America
Guangdong Xianglu Tungsten Co., Ltd.	CID000218	Tungsten	China
H.C. Starck Tungsten GmbH	CID002541	Tungsten	Germany
Hunan Chenzhou Mining Co., Ltd.	CID000766	Tungsten	China
Hunan Jintai New Material Co., Ltd.	CID000769	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
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
TANIOBIS Smelting GmbH & Co. KG	CID002542	Tungsten	Germany
Wolfram Bergbau und Hutten AG	CID002044	Tungsten	Austria
Xiamen Tungsten (H.C.) Co., Ltd.	CID002320	Tungsten	China
Xiamen Tungsten Co., Ltd.	CID002082	Tungsten	China
Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CID002830	Tungsten	China
Kennametal Huntsville	CID000105	Tungsten	United States of America
Materion Newton Inc.	CID002548	Tantalum	United States of America

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
Ulba Metallurgical Plant JSC	CID001969	Tantalum	Kazakhstan
Hunan Shizhuyuan Nonferrous Metals Co., Ltd. Chenzhou Tungsten Products Branch	CID002513	Tungsten	China
Solikamsk Magnesium Works OAO	CID001769	Tantalum	Russian Federation
TANIOBIS Japan Co., Ltd.	CID002549	Tantalum	Japan
Global Advanced Metals Boyertown	CID002557	Tantalum	United States of America
Hydrometallurg, JSC	CID002649	Tungsten	Russian Federation
Unecha Refractory metals plant	CID002724	Tungsten	Russian Federation
JSC "Kirovgrad Hard Alloys Plant"	CID003408	Tungsten	Russian Federation
Asia Tungsten Products Vietnam Ltd.	CID002502	Tungsten	Viet Nam
Exotech Inc.	CID000456	Tantalum	United States of America
Japan New Metals Co., Ltd.	CID000825	Tungsten	Japan
Kennametal Fallon	CID000966	Tungsten	United States of America
Niagara Refining LLC	CID002589	Tungsten	United States of America
Philippine Chuangxin Industrial Co., Inc.	CID002827	Tungsten	Philippines
ACL Metais Eireli	CID002833	Tungsten	Brazil
Moliren Ltd.	CID002845	Tungsten	Russian Federation
CNMC (Guangxi) PGMA Co., Ltd.	CID000281	Tungsten	China
QuantumClean	CID001508	Tantalum	United States of America
Taki Chemical Co., Ltd.	CID001869	Tantalum	Japan
Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.	CID002313	Tungsten	China
KEMET de Mexico	CID002539	Tantalum	Mexico
QSIL Metals Hermsdorf GmbH	CID002547	Tantalum	Germany
Global Advanced Metals Aizu	CID002558	Tantalum	Japan
Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CID002158	Tin	China
Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	CID002779	Gold	Austria
Resind Industria e Comercio Ltda.	CID002706	Tin	Brazil
Minsur	CID001182	Tin	Peru
Aurubis Beerse	CID002773	Tin	Belgium
Fenix Metals	CID000468	Tin	Poland
Operaciones Metalurgicas S.A.	CID001337	Tin	Bolivia (Plurinational State of)
EM Vinto	CID000438	Tin	Bolivia (Plurinational State of)
PT Mitra Stania Prima	CID001453	Tin	Indonesia
PT Refined Bangka Tin	CID001460	Tin	Indonesia
PT Timah Tbk Kundur	CID001477	Tin	Indonesia
PT Timah Tbk Mentok	CID001482	Tin	Indonesia
Rui Da Hung	CID001539	Tin	Taiwan, Province of China
Malaysia Smelting Corporation (MSC)	CID001105	Tin	Malaysia
China Tin Group Co., Ltd.	CID001070	Tin	China
Thaisarco	CID001898	Tin	Thailand
Alpha	CID000292	Tin	United States of America
Gejiu Kai Meng Industry and Trade LLC	CID000942	Tin	China
Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CID003116	Tin	China
Jiangxi New Nanshan Technology Ltd.	CID001231	Tin	China
Metallic Resources, Inc.	CID001142	Tin	United States of America
Mineracao Taboca S.A.	CID001173	Tin	Brazil
Mitsubishi Materials Corporation	CID001191	Tin	Japan
White Solder Metalurgia e Mineracao Ltda.	CID002036	Tin	Brazil
Tin Smelting Branch of Yunnan Tin Co., Ltd.	CID002180	Tin	China
PT ATD Makmur Mandiri Jaya	CID002503	Tin	Indonesia
Aurubis Berango	CID002774	Tin	Spain
PT Bangka Serumpun	CID003205	Tin	Indonesia
PT Artha Cipta Langgeng	CID001399	Tin	Indonesia

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
Gejiu Non-Ferrous Metal Processing Co., Ltd.	CID000538	Tin	China
Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CID000228	Tin	China
Dowa	CID000402	Tin	Japan
Gejiu Zili Mining And Metallurgy Co., Ltd.	CID000555	Tin	China
O.M. Manufacturing (Thailand) Co., Ltd.	CID001314	Tin	Thailand
Soft Metais Ltda.	CID001758	Tin	Brazil
Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CID001908	Tin	China
Magnu's Mineraiis Metais e Ligas Ltda.	CID002468	Tin	Brazil
Melt Metais e Ligas S.A.	CID002500	Tin	Brazil
O.M. Manufacturing Philippines, Inc.	CID002517	Tin	Philippines
Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company	CID002572	Tin	Viet Nam
Nghe Tinh Non-Ferrous Metals Joint Stock Company	CID002573	Tin	Viet Nam
Tuyen Quang Non-Ferrous Metals Joint Stock Company	CID002574	Tin	Viet Nam
An Vinh Joint Stock Mineral Processing Company	CID002703	Tin	Viet Nam
Super Ligas	CID002756	Tin	Brazil
HuiChang Hill Tin Industry Co., Ltd.	CID002844	Tin	China
Chifeng Dajingzi Tin Industry Co., Ltd.	CID003190	Tin	China
Pongpipat Company Limited	CID003208	Tin	Myanmar
Tin Technology & Refining	CID003325	Tin	United States of America
Cronimet Brasil Ltda	CID003468	Tungsten	Brazil
Advanced Chemical Company	CID000015	Gold	United States of America
Aida Chemical Industries Co., Ltd.	CID000019	Gold	Japan
Agosi AG	CID000035	Gold	Germany
Almalyk Mining and Metallurgical Complex (AMMC)	CID000041	Gold	Uzbekistan
AngloGold Ashanti Corrego do Sitio Mineracao	CID000058	Gold	Brazil
Argor-Heraeus S.A.	CID000077	Gold	Switzerland
Asahi Pretec Corp.	CID000082	Gold	Japan
Asaka Riken Co., Ltd.	CID000090	Gold	Japan
Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	CID000103	Gold	Turkey
Aurubis AG	CID000113	Gold	Germany
Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	CID000128	Gold	Philippines
Boliden AB	CID000157	Gold	Sweden
C. Hafner GmbH + Co. KG	CID000176	Gold	Germany
Caridad	CID000180	Gold	Mexico
CCR Refinery - Glencore Canada Corporation	CID000185	Gold	Canada
Cendres + Metaux S.A.	CID000189	Gold	Switzerland
Yunnan Copper Industry Co., Ltd.	CID000197	Gold	China
Chimet S.p.A.	CID000233	Gold	Italy
Chugai Mining	CID000264	Gold	Japan
PT Premium Tin Indonesia	CID000313	Tin	Indonesia
Daye Non-Ferrous Metals Mining Ltd.	CID000343	Gold	China
DSC (Do Sung Corporation)	CID000359	Gold	Korea, Republic of
Dowa	CID000401	Gold	Japan
Eco-System Recycling Co., Ltd. East Plant	CID000425	Gold	Japan
Estanho de Rondonia S.A.	CID000448	Tin	Brazil
JSC Novosibirsk Refinery	CID000493	Gold	Russian Federation
Refinery of Seemine Gold Co., Ltd.	CID000522	Gold	China
Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CID000651	Gold	China
Hangzhou Fuchunjiang Smelting Co., Ltd.	CID000671	Gold	China
LT Metal Ltd.	CID000689	Gold	Korea, Republic of
Heimerle + Meule GmbH	CID000694	Gold	Germany
Heraeus Metals Hong Kong Ltd.	CID000707	Gold	China

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
Heraeus Germany GmbH Co. KG	CID000711	Gold	Germany
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
Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CID000801	Gold	China
Ishifuku Metal Industry Co., Ltd.	CID000807	Gold	Japan
Istanbul Gold Refinery	CID000814	Gold	Turkey
Japan Mint	CID000823	Gold	Japan
Jiangxi Copper Co., Ltd.	CID000855	Gold	China
Asahi Refining USA Inc.	CID000920	Gold	United States of America
Asahi Refining Canada Ltd.	CID000924	Gold	Canada
JSC Ekaterinburg Non-Ferrous Metal Processing Plant	CID000927	Gold	Russian Federation
JSC Uralelectromed	CID000929	Gold	Russian Federation
JX Nippon Mining & Metals Co., Ltd.	CID000937	Gold	Japan
Kazakhmys Smelting LLC	CID000956	Gold	Kazakhstan
Kazzinc	CID000957	Gold	Kazakhstan
Kennecott Utah Copper LLC	CID000969	Gold	United States of America
Kojima Chemicals Co., Ltd.	CID000981	Gold	Japan
Kyrgyzaltyn JSC	CID001029	Gold	Kyrgyzstan
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
LS-NIKKO Copper Inc.	CID001078	Gold	Korea, Republic of
Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	CID001093	Gold	China
Materion	CID001113	Gold	United States of America
Matsuda Sangyo Co., Ltd.	CID001119	Gold	Japan
Metalor Technologies (Suzhou) Ltd.	CID001147	Gold	China
Metalor Technologies (Hong Kong) Ltd.	CID001149	Gold	China
Metalor Technologies (Singapore) Pte., Ltd.	CID001152	Gold	Singapore
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
Mitsubishi Materials Corporation	CID001188	Gold	Japan
Mitsui Mining and Smelting Co., Ltd.	CID001193	Gold	Japan
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
Nihon Material Co., Ltd.	CID001259	Gold	Japan
Novosibirsk Tin Combine	CID001305	Tin	Russian Federation
Ohura Precious Metal Industry Co., Ltd.	CID001325	Gold	Japan
OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	CID001326	Gold	Russian Federation
MKS PAMP SA	CID001352	Gold	Switzerland
Penglai Penggang Gold Industry Co., Ltd.	CID001362	Gold	China
Prioksky Plant of Non-Ferrous Metals	CID001386	Gold	Russian Federation
PT Aneka Tambang (Persero) Tbk	CID001397	Gold	Indonesia
PT Babel Surya Alam Lestari	CID001406	Tin	Indonesia
PT Prima Timah Utama	CID001458	Tin	Indonesia
PT Stanindo Inti Perkasa	CID001468	Tin	Indonesia
PT Timah Nusantara	CID001486	Tin	Indonesia
PT Tinindo Inter Nusa	CID001490	Tin	Indonesia
PX Precinox S.A.	CID001498	Gold	Switzerland

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
Rand Refinery (Pty) Ltd.	CID001512	Gold	South Africa
Royal Canadian Mint	CID001534	Gold	Canada
Sabin Metal Corp.	CID001546	Gold	United States of America
Samduck Precious Metals	CID001555	Gold	Korea, Republic of
Samwon Metals Corp.	CID001562	Gold	Korea, Republic of
SEMPSA Joyeria Plateria S.A.	CID001585	Gold	Spain
Shandong Tiancheng Biological Gold Industrial Co., Ltd.	CID001619	Gold	China
Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CID001622	Gold	China
Sichuan Tianze Precious Metals Co., Ltd.	CID001736	Gold	China
SOE Shyolkovsky Factory of Secondary Precious Metals	CID001756	Gold	Russian Federation
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
Great Wall Precious Metals Co., Ltd. of CBPM	CID001909	Gold	China
Shandong Gold Smelting Co., Ltd.	CID001916	Gold	China
Tokuriki Honten Co., Ltd.	CID001938	Gold	Japan
Tongling Nonferrous Metals Group Co., Ltd.	CID001947	Gold	China
Torecom	CID001955	Gold	Korea, Republic of
Umicore S.A. Business Unit Precious Metals Refining	CID001980	Gold	Belgium
United Precious Metal Refining, Inc.	CID001993	Gold	United States of America
Valcambi S.A.	CID002003	Gold	Switzerland
VQB Mineral and Trading Group JSC	CID002015	Tin	Viet Nam
Western Australian Mint (T/a The Perth Mint)	CID002030	Gold	Australia
Yamakin Co., Ltd.	CID002100	Gold	Japan
Yokohama Metal Co., Ltd.	CID002129	Gold	Japan
Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CID002224	Gold	China
Gold Refinery of Zijin Mining Group Co., Ltd.	CID002243	Gold	China
Morris and Watson	CID002282	Gold	New Zealand
SAFINA A.S.	CID002290	Gold	Czechia
Guangdong Jinding Gold Limited	CID002312	Gold	China
Umicore Precious Metals Thailand	CID002314	Gold	Thailand
CV Venus Inti Perkasa	CID002455	Tin	Indonesia
Geib Refining Corporation	CID002459	Gold	United States of America
MMTC-PAMP India Pvt., Ltd.	CID002509	Gold	India
KGHM Polska Miedz Spolka Akcyjna	CID002511	Gold	Poland
Fidelity Printers and Refiners Ltd.	CID002515	Gold	Zimbabwe
Singway Technology Co., Ltd.	CID002516	Gold	Taiwan, Province of China
Shandong Humon Smelting Co., Ltd.	CID002525	Gold	China
Shenzhen Zhonghenglong Real Industry Co., Ltd.	CID002527	Gold	China
Al Etihad Gold Refinery DMCC	CID002560	Gold	United Arab Emirates
Emirates Gold DMCC	CID002561	Gold	United Arab Emirates
International Precious Metal Refiners	CID002562	Gold	United Arab Emirates
Kaloti Precious Metals	CID002563	Gold	United Arab Emirates
Sudan Gold Refinery	CID002567	Gold	Sudan
CV Ayi Jaya	CID002570	Tin	Indonesia
T.C.A S.p.A	CID002580	Gold	Italy
REMONDIS PMR B.V.	CID002582	Gold	Netherlands
Fujairah Gold FZC	CID002584	Gold	United Arab Emirates
Industrial Refining Company	CID002587	Gold	Belgium
Shirpur Gold Refinery Ltd.	CID002588	Gold	India
Korea Zinc Co., Ltd.	CID002605	Gold	Korea, Republic of
Marsam Metals	CID002606	Gold	Brazil

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
TOO Tau-Ken-Altyn	CID002615	Gold	Kazakhstan
Abington Reldan Metals, LLC	CID002708	Gold	United States of America
SAAMP	CID002761	Gold	France
L'Orfebre S.A.	CID002762	Gold	Andorra
8853 S.p.A.	CID002763	Gold	Italy
Italpreziosi	CID002765	Gold	Italy
WIELAND Edelmetalle GmbH	CID002778	Gold	Germany
PT Menara Cipta Mulia	CID002835	Tin	Indonesia
AU Traders and Refiners	CID002850	Gold	South Africa
GGC Gujrat Gold Centre Pvt. Ltd.	CID002852	Gold	India
Sai Refinery	CID002853	Gold	India
Modeltech Sdn Bhd	CID002857	Gold	Malaysia
Modeltech Sdn Bhd	CID002858	Tin	Malaysia
Bangalore Refinery	CID002863	Gold	India
Kyshtym Copper-Electrolytic Plant ZAO	CID002865	Gold	Russian Federation
Degussa Sonne / Mond Goldhandel GmbH	CID002867	Gold	Germany
Pease & Curren	CID002872	Gold	United States of America
JALAN & Company	CID002893	Gold	India
SungEel HiMetal Co., Ltd.	CID002918	Gold	Korea, Republic of
Planta Recuperadora de Metales SpA	CID002919	Gold	Chile
Safimet S.p.A	CID002973	Gold	Italy
State Research Institute Center for Physical Sciences and Technology	CID003153	Gold	Lithuania
African Gold Refinery	CID003185	Gold	Uganda
Gold Coast Refinery	CID003186	Gold	Ghana
NH Recytech Company	CID003189	Gold	Korea, Republic of
QG Refining, LLC	CID003324	Gold	United States of America
Dijllah Gold Refinery FZC	CID003348	Gold	United Arab Emirates
Dongguan CiEXPO Environmental Engineering Co., Ltd.	CID003356	Tin	China
PT Rajawali Rimba Perkasa	CID003381	Tin	Indonesia
CGR Metalloys Pvt Ltd.	CID003382	Gold	India
Sovereign Metals	CID003383	Gold	India
Luna Smelter, Ltd.	CID003387	Tin	Rwanda
Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CID003397	Tin	China
Precious Minerals and Smelting Limited	CID003409	Tin	India
Gejiu City Fuxiang Industry and Trade Co., Ltd.	CID003410	Tin	China
NPP Tyazhmetprom LLC	CID003416	Tungsten	Russian Federation
Hubei Green Tungsten Co., Ltd.	CID003417	Tungsten	China
C.I Metales Procesados Industriales SAS	CID003421	Gold	Colombia
Eco-System Recycling Co., Ltd. North Plant	CID003424	Gold	Japan
Eco-System Recycling Co., Ltd. West Plant	CID003425	Gold	Japan
Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.	CID003427	Tungsten	Brazil
PT Mitra Sukses Globalindo	CID003449	Tin	Indonesia
Augmont Enterprises Private Limited	CID003461	Gold	India
Kundan Care Products Ltd.	CID003463	Gold	India
CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	CID003486	Tin	Brazil
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
K.A. Rasmussen	CID003497	Gold	Norway



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Alexy Metals	CID003500	Gold	United States of America
CRM Synergies	CID003524	Tin	Spain
Sancus ZFS (L'Orfebre, SA)	CID003529	Gold	Colombia
Sellem Industries Ltd.	CID003540	Gold	Mauritania
MD Overseas	CID003548	Gold	India
Artek LLC	CID003553	Tungsten	Russian Federation
Metallix Refining Inc.	CID003557	Gold	United States of America
Metal Concentrators SA (Pty) Ltd.	CID003575	Gold	South Africa
Fabrica Auricchio Industria e Comercio Ltda.	CID003582	Tin	Brazil
RFH Yancheng Jinye New Material Technology Co., Ltd.	CID003583	Tantalum	China
OOO "Technolom" 2	CID003612	Tungsten	Russian Federation
OOO "Technolom" 1	CID003614	Tungsten	Russian Federation
WEEEREFINING	CID003615	Gold	France
PT Aries Kencana Sejahtera	CID000309	Tin	Indonesia
PT Belitung Industri Sejahtera	CID001421	Tin	Indonesia
Fujian Jinxin Tungsten Co., Ltd.	CID000499	Tungsten	China
Woltech Korea Co., Ltd.	CID002843	Tungsten	Korea, Republic of
Guangdong Rising Rare Metals-EO Materials Ltd.	CID000291	Tantalum	China
SAXONIA Edelmetalle GmbH	CID002777	Gold	Germany
PT Sariwiguna Binasentosa	CID001463	Tin	Indonesia
PT Sukses Inti Makmur	CID002816	Tin	Indonesia
Tungsten Vietnam Joint Stock Company	CID003993	Tungsten	Viet Nam
PT Bukit Timah	CID001428	Tin	Indonesia
PT Babel Inti Perkasa	CID001402	Tin	Indonesia
PT Cipta Persada Mulia	CID002696	Tin	Indonesia
Thai Nguyen Mining and Metallurgy Co., Ltd.	CID002834	Tin	Viet Nam
Ma'anshan Weitai Tin Co., Ltd.	CID003379	Tin	China
KEMET Blue Powder	CID002568	Tantalum	United States of America
Asaka Riken Co., Ltd.	CID000092	Tantalum	Japan
Meta Materials	CID002847	Tantalum	North Macedonia, Republic of
Huichang Jinshunda Tin Co., Ltd.	CID000760	Tin	China
PT Tommy Utama	CID001493	Tin	Indonesia
Guanyang Guida Nonferrous Metal Smelting Plant	CID002849	Tin	China
Hunan Chuangda Vanadium Tungsten Co., Ltd.	CID002769	Tungsten	China
Hunan Litian Tungsten Industry Co., Ltd.	CID003182	Tungsten	China
Tejing (Vietnam) Tungsten Co., Ltd.	CID001889	Tungsten	Viet Nam
Xinhai Rendan Shaoguan Tungsten Co., Ltd.	CID002095	Tungsten	China
Jiangxi Xianglu Tungsten Co., Ltd.	CID002647	Tungsten	China
South-East Nonferrous Metal Company Limited of Hengyang City	CID002815	Tungsten	China
Vietnam Youngsun Tungsten Industry Co., Ltd.	CID002011	Tungsten	Viet Nam
Gem (Jiangsu) Cobalt Industry Co., Ltd.	CID003209	Cobalt	China
Glencore Nikkelverk Refinery	CID003403	Cobalt	Norway
Umicore Finland Oy	CID003226	Cobalt	Finland
Sumitomo Metal Mining	CID003955	Cobalt	Japan
Port Colborne Refinery	CID003239	Cobalt	Canada
Dynatec Madagascar Company	CID003232	Cobalt	Madagascar
Murrin Murrin Nickel Cobalt Plant	CID003406	Cobalt	Australia
Mine de Bou-Azzer	CID003279	Cobalt	Morocco
NORILSK NICKEL HARJAVALTA OY	CID003390	Cobalt	Finland
Jingmen GEM Co., Ltd.	CID003378	Cobalt	China
Jiangxi Jiangwu Cobalt industrial Co., Ltd.	CID003377	Cobalt	China
Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CID003212	Cobalt	China

<b>Standard Smelter Name</b>	<b>Smelter ID</b>	<b>Metal</b>	<b>Country Location</b>
Gangzhou Yi Hao Umicore Industry Co.	CID003227	Cobalt	China
Nanjing Hanrui Cobalt	CID003252	Cobalt	China
Quzhou Huayou Cobalt New Material Co., Ltd.	CID003255	Cobalt	China
Kamoto Copper Company	CID003261	Cobalt	Congo, Democratic Republic of The
Zhejiang New Era Zhongneng Technology Co., Ltd.	CID003398	Cobalt	China
Anhui Hanrui New Material Co., Ltd.	CID003927	Cobalt	China
Umicore Olen	CID003228	Cobalt	Belgium
Guangdong Jiana Energy Technology Co., Ltd.	CID003291	Cobalt	China
Zhejiang Greatpower Cobalt Materials Co., Ltd.	CID003526	Cobalt	China
Jiangsu Xiongfeng Technology Co., Ltd.	CID003293	Cobalt	China
Zhejiang Huayou Cobalt & Nickel Co., Ltd	CID003246	Cobalt	China
Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CID003210	Cobalt	China
Compagnie de Tifnout Tiranimine	CID003280	Cobalt	Morocco
Ganzhou Highpower Technology Co., Ltd.	CID003384	Cobalt	China
Cosmo Chemical, Ltd.	CID003415	Cobalt	Korea, Republic of
CoreMax Corporation	CID003473	Cobalt	Taiwan, Province of China
Shu Powders Ltd.	CID003309	Cobalt	South Africa
Zhejiang Huayou Cobalt Company Limited	CID003225	Cobalt	China
METAL MINES SARL	CID003385	Cobalt	Congo, Democratic Republic of The
Niihama Nickel Refinery, Sumitomo Metal Mining	CID003278	Cobalt	Japan
JSC Kolskaya Mining and Metallurgical Company (Kola MMC)	CID003233	Cobalt	Russian Federation
Chemaf Etoile	CID003264	Cobalt	Congo, Democratic Republic of The
SungEel HiTech Co., Ltd.	CID003338	Cobalt	Korea, Republic of
Hunan CNGR New Energy Science & Technology Co., Ltd.	CID003411	Cobalt	China
Chemaf Usoke	CID003423	Cobalt	Congo, Democratic Republic of The

