



## ACER INCORPORATED 2018 RESPONSIBLE MINERALS REPORT

### Introduction

Acer has had a long standing commitment to ensuring the responsible sourcing of minerals in its supply chain. Our journey began in 2009, when Acer first engaged its suppliers to determine the source of conflict minerals. Shortly after that, Acer joined the RMI and was involved in the pilot of the first version of the Conflict Minerals Reporting Template (CMRT) and supported the development of the Responsible Minerals Assurance Process (RMAP). In 2014, Acer released its first conflict minerals report and later on that year joined the Public-Private Alliance for Responsible Minerals Trade (PPA) to help support in-region programs that seek to develop minerals tracing systems and spur economic development. Last year, Acer expanded its conflict minerals program to include other minerals sourced from conflict affected and high risk areas (CAHRAs) and released its first consolidated Responsible Minerals Report (RMR). Each year Acer has been able to make substantial progress towards ensuring responsibly sourced minerals. For more information, please visit Acer's [Responsible Minerals Program](#).

Acer has developed this RMR, covering the period from January 1 to December 31 of 2018, for the purpose of describing our due diligence efforts on the source and chain of custody of the gold, columbite-tantalite (coltan), cassiterite, wolframite, tantalum, tin, and tungsten (collectively referred to as "3TG") contained in our products that we have reason to believe may have originated from the Democratic Republic of the Congo ("DRC") or an adjoining country (collectively defined as the "Covered Countries") and may not have come from recycled or scrap sources. In addition, this report includes a description of our due diligence efforts to address cobalt in the lithium-ion battery supply chain as well as tin sourced from Indonesia, both of which have been determined to originate from CAHRAs. Cobalt, Indonesia tin, and 3TG have all been identified by Acer to be priority minerals.

Throughout the report, various terms will be used to describe the minerals due diligence programs for Acer. The term "responsible minerals" generally refers to Acer's minerals due diligence programs. The term "priority minerals" includes minerals that Acer has determined to exist in its supply chain and have a risk of originating from CAHRAs, and finally, "conflict minerals", which refers specifically to the portion of our program and activities related to the sourcing of 3TG from the DRC.

Founded in 1976, today Acer is one of the world's top ICT companies and has a presence in over 160 countries. As Acer looks into the future, it is focused on enabling a world where hardware, software and services will infuse with one another to open up new possibilities for consumers and businesses alike. From service-oriented technologies to the Internet of Things to gaming and virtual reality, Acer's 7,000+ employees are dedicated to the research, design, marketing, sale, and support of products and solutions that break barriers between people and technology. Please visit [www.acer.com](http://www.acer.com) for more information.

### **Reasonable Country of Origin Inquiry (RCOI)**

For Conflict Minerals, Acer conducted a reasonable country of origin inquiry (RCOI) that employed a combination of measures to determine whether the necessary 3TG in Acer's products originated from the Covered Countries. As a member of the Responsible Minerals Initiative (RMI), Acer's primary means of determining country of origin of necessary 3TG was by conducting a supply-chain survey with direct suppliers using the RMI CMRT. The smelters or refiners (SORs) that were identified as part of this supply chain survey were compared to the list of known SORs that is maintained by the RMI and those that have had their mines of origin verified by the RMAP, London Bullion Market Association's *Responsible Gold Programme* (LBMA), or Responsible Jewelry Council's *Chain-of-Custody Certification Program* (RJC) and made available to RMI members.

When country of origin is unable to be determined from the RMI, Acer turns to other forms of due diligence to conduct its RCOI. This includes direct contact with the SORs, review of outreach efforts by industry-led programs, such as the RMI, or outreach results shared by Acer's direct suppliers. In 2018, Acer was able to identify 262 SORs in its supply chain. Out of 262 total SORs, RCOI information was available for 225 through validation by the RMAP. Of the remaining 85 SORs, Acer was able to determine the country of origin for 48, leaving 37 that remain unknown.

Due to the results of its RCOI, Acer has reason to believe that in some cases, its necessary 3TG may have originated in the DRC or Covered Countries and has reason to believe that they may not be from recycled or scrap sources. Consequently, Acer has exercised due diligence on the source and chain of custody of its necessary 3TG that conforms to a nationally or internationally recognized due diligence framework, and describes those activities in this RMR.

## **Design of Acer's Due Diligence Measures**

Acer developed and implemented a responsible minerals due diligence program to help protect human rights, avoid contributing to conflict, and to minimize social/economic and environmental risks when sourcing any priority minerals. Acer designed and continues to implement its due diligence measures in accordance with the internationally recognized due diligence framework in the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas ("OECD Guidance") and related Supplements for each of the minerals as they relate to downstream companies in the supply chain.

As a brand company, Acer's supply chain has multiple tiers between the company and the mines. Acer does not purchase raw ore or unrefined 3TG or other priority minerals, and does not directly purchase materials in the DRC, Covered Countries, or other CAHRAs. The origin of 3TG and other priority minerals cannot be determined with any certainty once the raw ores are smelted, refined and converted to ingots, bullion or other mineral containing derivatives. The SORs are consolidating points for raw ore and are in the best position in the supply chain to know the origin of the ores. Our supplier engagement includes the suppliers with which Acer has a direct relationship and has influence over purchasing decisions. These suppliers are considered first tier and we rely on them to help us identify and assess the risk in the supply chain and provide information on the SORs that supply the priority minerals contained in our products.

Acer's due diligence includes the following elements of the 5-Step OECD Framework:

1. Establish strong company management systems;  
Adopt and commit to a supply chain policy for identifying and managing risks, structure internal management systems to support supply chain due diligence, establish a system of controls and transparency over the supply chain, strengthen company engagement with suppliers, and establish a grievance mechanism.
2. Identify and assess risks in the supply chain;  
Identify the SORs in the supply chain, identify the scope of the risk assessment of the mineral supply chain, assess whether the SORs have carried out all elements of due diligence, and where necessary, carry out joint spot checks at the mineral SOR's own facilities.

3. Design and implement a strategy to respond to identified risks;  
Report findings to designated senior management, devise and adopt a risk management plan, implement the risk management plan, monitor and track performance of risk mitigation, report back to designated senior management and consider suspending or discontinuing engagement with a supplier after failed attempts at mitigation, and undertake additional fact and risk assessments for risks requiring mitigation or after a change of circumstances.
4. Carry out independent third-party audit of smelter/refiner's due diligence practices;  
Plan an independent third party audit of the SOR's due diligence.
5. Report annually on supply chain due diligence.  
Annually report or integrate, where practicable, into annual sustainability or corporate responsibility reports, additional information on due diligence.

### **Description of Due Diligence Measures Performed**

During the reporting period, Acer performed the following due diligence measures:

1. Established strong company management systems
  - Continued support of an internal team that includes oversight by senior staff to manage all aspects of Acer's responsible minerals due diligence program.
  - Implemented a new software solution to more efficiently manage our supply chain data transfer, supplier engagement, and the identification and mitigation of risks.
  - Revised Acer's responsible minerals policy based on stakeholder feedback to better address the expectations when broadening the scope of our program (policy [available on Acer's sustainability website](#)).
  - Revised Acer's Responsible Minerals Procedure to update activities associated with developing and implementing the new software solution.
  - Continued to maintain and monitor a grievance mechanism via [whistleblower.acer@acer.com](mailto:whistleblower.acer@acer.com) to be used specifically by any interested party (e.g. affected person or whistleblower) to raise concerns regarding business conduct in Acer's supply chain, including in relation to the extraction and supply of minerals.
  - Continued to review the RMI Grievance and Complaints Mechanism results to be informed of the issues and the steps taken to address the matters, as well as identify any issues where Acer may directly support.

- Continued to provide capacity building through our annual supplier CSR communication meeting. Acer provided follow-up training on the implementation of its new software solution, updated expectations on achieving program goals, and the global trend to all of the internal personnel with responsibility over responsible minerals program activities as well as all of the 1<sup>st</sup> tier suppliers over which Acer has direct influence.

## 2. Identify and assess risks in the supply chain

- Conducted Acer's seventh conflict minerals survey, requesting information on Acer's supply chain using the CMRT and received 100% direct supplier response rate.
- Following the completion of two pilot phases, Acer conducted its first official cobalt survey using the finalized RMI Cobalt Reporting Template (CRT) and received 100% direct supplier response rate..
- Consolidated the supplier survey responses for 3TG and cobalt and compared the results with the RMI known SOR lists and the RMAP to verify true SORs, SOR status, mines of origin and conflict-free status for 3TG.
- Shared lists of 3TG and cobalt SORs with the RMI to assist the RMI with maintaining an up-to-date list of current SORs.
- Acer continues to conduct audits to verify the presence of an implemented due diligence program, including the existence of their own conflict or responsible minerals policies, evidence of the design and implementation of supply chain due diligence program that includes a risk management plan to identify and mitigate risks, and existence of conflict or responsible minerals reporting. In 2018, Acer did not identify any non-conformances related to conflict minerals clauses.
- Acer continued using the Standards Comparison and Risk Readiness Assessment (RRA) tool offered through the Responsible Business Alliance (RBA). The tool allows Acer to compare suppliers' performance across many different standards, initiatives and certifications, improving our ability to assess and manage risk in our minerals supply chain. Acer continues to request that the SORs in its supply chain register in the RRA system and complete and share the RRA results with us. At the time of the writing of this report, Acer has connections with 95 smelters and has received 86 RRAs.

3. Design and implement a strategy to respond to identified risks

- Improved the effectiveness of our supplier engagement and feedback process through the implementation of a new software solution. The system enables immediate automated responses based on data completeness and line-by-line status of each SOR identified by our suppliers asking them to review and engage with whom we identified for “Outreach” as part of Acer’s conflict minerals due diligence process.
- Continued engaging SORs directly for both 3TG and cobalt to encourage participation in the RMAP. Two of our cobalt refiners joined the cobalt refiner pilot assessments in 2018.
- Continued our practice from last year of demanding suppliers to cease sourcing materials from certain high risk SORs that have chosen not to participate in the RMAP over the long term. In 2018 we have been successful in removing many of these high risk SORs from the supply chain.
- Continued to measure conflict minerals key performance indicators (KPIs) within Acer’s supplier CSR scorecard to minimize risk by driving better due diligence and reporting within the supply chain. The majority of Acer suppliers fall into the “good” category. Although we did identify some suppliers that required immediate improvement. At the time of the writing of this report, all suppliers requiring immediate improvement were able to implement corrective action. A summary of the results of our supplier CSR scorecards is provided in Table 1 below.

**Table 1: CSR Scorecard Results**

Score Category	Score	Suppliers
Needs improvement immediately	<5	4%
Needs Improvement	5<score<8	17%
Good	8=<score=<10	79%

- Continued reviewing the RMI’s Grievance & Complaints Mechanism report to identify potential issues that may exist in Acer’s supply chain and to support mitigation where applicable.

4. Carry out independent third-party audit of smelter/refiner’s due diligence practices

- Continued financial support of the RMAP (member ID: ACER) as an active member of the RBA.

5. Report annually on supply chain due diligence

- Published an updated list of known SORs (3TG and cobalt) that have been identified in Acer's supply chain as a result of its due diligence measures (see Appendix B).
- Reported on Acer's supply chain due diligence via this RMR.

**In-Region Clean Minerals Trade**

Acer continues to believe that projects and organizations that seek to boost economic development, help stabilize the Great Lakes Region, as well as develop systems that feed into the RMAP tools and processes are essential. In addition, Acer realizes that mining is an intensive process involving social and environmental risks that must be managed and involves metals and minerals that extend beyond 3TG and the DRC. As a result, Acer follows and/or supports the organizations below.

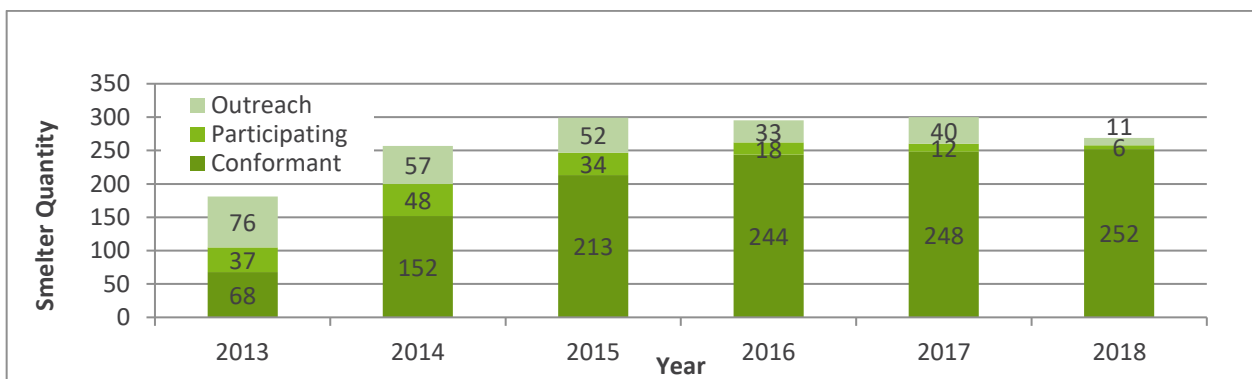
- Monitors the activities of the *ICGLR-OECD-UN Joint Forum on Responsible Mineral Supply Chains* to learn about experiences with regards to implementing the OECD Guidance and opportunities to contribute to in-region programs.
- Contributes funding and participates as a member of the *PPA*, an organization whose goal is to award funding for in-region programs that seek to spur economic development and develop minerals tracing systems. In 2018, Acer attended the annual multi-stakeholder membership meeting in Santa Clara, California to review a proposed scope of work for 2019 – 2020 and share guidance on major activities for the coming year, hear updates on PPA milestones and work in progress in 2018, learn about government partners' activities and priorities over the near and long-term related to responsible minerals trade in the Great Lakes Region, and identify opportunities for PPA collaboration.
- Participates as a member of RMI's Tin Working Group (TWG), which is focused on significant risk areas including social/economic risks, occupational health and safety, environmental degradation, and challenging legal/regulatory issues related to mining tin in Indonesia. In 2018, the TWG supported pilot project activities for land reclamation as well as occupational health and safety (OHS) capacity building and held a face-to-face meeting to establish group expectations and to develop the 2019 workplan.

## Results of Due Diligence Measures

As a result of its due diligence measures in 2018, Acer was able to identify 262 unique 3TG and 7 cobalt SORs in its supply chain that it has reason to believe are legitimate SORs. Acer based this decision off of the information received through the consolidation of its supplier survey responses and industry information made available to it through its RMI membership and working group participation.

For the 2018 reporting year, Acer is also providing an update to its progress year-over-year (Figure 1), which includes the combined results for 3TG and cobalt, and individual metal performance for the current reporting year (Figure 2). Both charts include the SOR status as of April 30, 2019 and clearly show the excellent progress Acer has made as a result of its due diligence efforts.

**Figure 1: Progress**



\*Status is defined as follows:

Conformant: Smelters or refiners that are compliant with the Responsible Minerals Assurance Process (RMAP) assessment protocols or have been validated by a similar validation program (e.g., the London Bullion Market Association's *Responsible Gold Programme* or the Responsible Jewelry Council's *Chain-of-Custody Certification Program*)

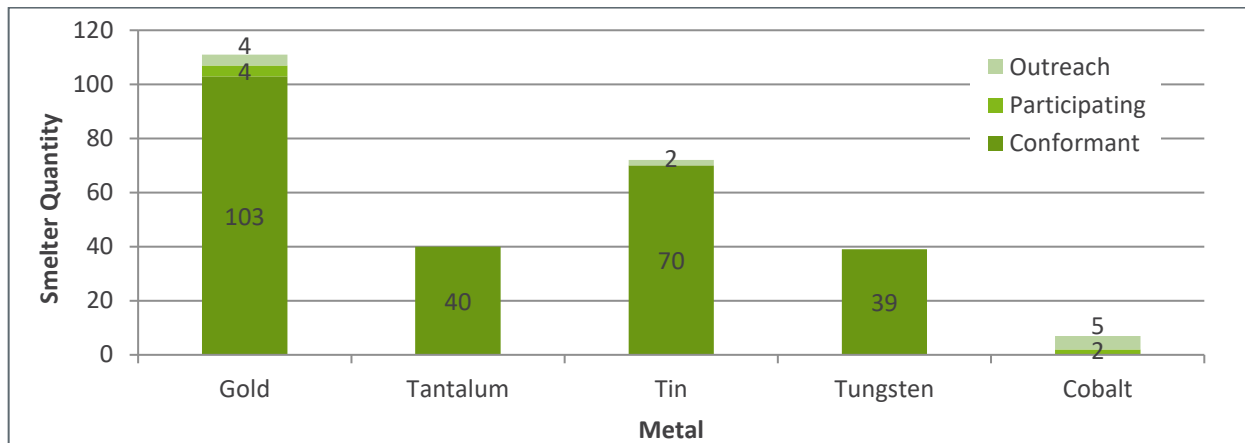
Participating: Smelters and refiners that have committed to undergo an RMAP audit

Outreach: Smelters or refiners that have not agreed to participate, but Acer is assisting with targeted outreach

\*\* Totals include smelters/refiners of gold, tantalum, tin, tungsten and cobalt.



**Figure 2: 2018 Status, by metal**



\*Status is defined as follows:

Conformant: Smelters or refiners that are compliant with the Responsible Minerals Assurance Process (RMAP) assessment protocols or have been validated by a similar validation program (e.g., the London Bullion Market Association’s *Responsible Gold Programme* or the Responsible Jewelry Council’s *Chain-of-Custody Certification Program*)

Participating: Smelters and refiners that have committed to undergo an RMAP audit

Outreach: Smelters or refiners that have not agreed to participate, but Acer is assisting with targeted outreach

Acer included the following appendices to this RMR that provide additional details on the direct suppliers and SORs in Acer’s supply chain:

- Appendix A – Supply Chain Indicators – additional metrics Acer has identified to track progress within its 3TG supply chain.
- Appendix B – Smelter/Refiner List– the complete list of SORs that were confirmed to be part of Acer’s supply chain during the 2018 reporting period.

Acer continues to reach toward the ultimate goal of having 100% of its SORs engaged in the RMAP, either conformant or participating in the process with the goal of becoming conformant. However, due to the dynamic nature of our supply chain and the existence of a due diligence process that identifies risk mitigation opportunities, Acer understands that it’s realistic to assume that there may always be a number of SORs that require outreach or are in the process of being added or removed from the supply chain. In 2018, Acer set a target that 90% of smelters would be RMAP conformant and 95% would be either RMAP conformant or participating, allowing for a small quantity of SORs to be in the risk mitigation or transition phase. With the results of 96% conformant and 98% when including the participating SORs, Acer far exceeded its goal for 2018.

## **Future Due Diligence and Risk Mitigation Measures**

Acer will continue to take steps during the next reporting period to improve the due diligence conducted and further mitigate the risk in its supply chain, including:

- Continue to review and update Acer's policies, procedures, risk-management plans, and program metrics to ensure they remain progressive, drive continuous improvement, and are tailored accordingly to account for additional risks specific to other priority minerals and CAHRAs identified by Acer.
- Support the development of due diligence processes, tools and audit programs for other priority minerals through multi-stakeholder processes, such as those coordinated by the RMI.
- Continue to work with suppliers to increase the accuracy of SOR identification, support SOR engagement, and drive them to source from SORs with a RMAP-conformant status.
- Continue to encourage SORs to participate in the RMAP, with the goal of obtaining a conformant status.
- Continue supplier audits to evaluate responsible minerals policies and practices within the supply chain downstream from the SORs.
- Continue to measure and grade the due diligence performance of our direct suppliers through our corporate social responsibility scorecard, to prioritize responsible minerals and drive continuous improvement.
- Continue to support in-region projects and organizations that seek to boost economic development, mitigate social and environmental risks, as well as develop systems that feed into the RMAP tools and processes.

For 2019, our targets are: 95% of SORs are conformant to an OECD-aligned 3<sup>rd</sup> party mechanism and 100% are either conformant to or participating in an OECD-aligned 3<sup>rd</sup> party mechanism.

## Appendix A – Supply Chain Indicators

Indicator	Result				
	2014	2015	2016	2017	2018
Number of supplier audits conducted	72	71	70	71	105
Number of supplier factories in compliance with Acer's policy or program	63	65	66	69	105
Percentage of suppliers that have adopted a conflict minerals policy	96%	97%	98%	100%	100%
- Policy is publically available on supplier's website	81%	78%	84%	86%	91%
Suppliers that have required their direct suppliers to source from smelters validated by an independent third party audit	60%	100%	100%	100%	94%
Percentage of validated smelters in the supply chain that are known to not be sourcing from covered countries	39%	52%	60%	56%	60%
Percentage of validated smelters in the supply chain that are known to be sourcing from covered countries	8%	11%	18%	13%	17%
Quantity of smelters that are known to be sourcing from covered countries (Percentage that are validated)	20 (100%)	23 (100%)	43 (100%)	40 (100%)	44 (100%)

## Appendix B – Smelter/Refiner List

As part of Acer’s responsible minerals due diligence efforts, we have published a list of the tantalum, tin, tungsten, gold and cobalt smelters/refiners that have been confirmed to be present in our supply chain. On an annual basis, this list will be updated with the latest status. For the most current information on each smelter/refiner, please visit the Responsible Minerals Initiative website at [www.responsiblemineralsinitiative.org](http://www.responsiblemineralsinitiative.org)

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
Gold	Aida Chemical Industries Co., Ltd.	JAPAN
Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Gold	Argor-Heraeus S.A.	SWITZERLAND
Gold	Asahi Pretec Corp.	JAPAN
Gold	Asahi Refining Canada Ltd.	CANADA
Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Gold	Asaka Riken Co., Ltd.	JAPAN
Gold	Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	TURKEY
Gold	AU Traders and Refiners	SOUTH AFRICA
Gold	Aurubis AG	GERMANY
Gold	Bangalore Refinery	INDIA
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
Gold	Boliden AB	SWEDEN
Gold	C. Hafner GmbH + Co. KG	GERMANY
Gold	CCR Refinery - Glencore Canada Corporation	CANADA
Gold	Cendres + Metaux S.A.	SWITZERLAND
Gold	Chimet S.p.A.	ITALY
Gold	Chugai Mining	JAPAN

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Gold	Daejin Indus Co., Ltd.	KOREA, REPUBLIC OF
Gold	Daye Non-Ferrous Metals Mining Ltd.	CHINA
Gold	DODUCO Contacts and Refining GmbH	GERMANY
Gold	Dowa	JAPAN
Gold	DS PRETECH Co., Ltd.	KOREA, REPUBLIC OF
Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Gold	Eco-System Recycling Co., Ltd.	JAPAN
Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Gold	Great Wall Precious Metals Co., Ltd. of CBPM	CHINA
Gold	Guangdong Jinding Gold Limited	CHINA
Gold	HeeSung Metal Ltd.	KOREA, REPUBLIC OF
Gold	Heimerle + Meule GmbH	GERMANY
Gold	Heraeus Metals Hong Kong Ltd.	CHINA
Gold	Heraeus Precious Metals GmbH & Co. KG	GERMANY
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
Gold	Istanbul Gold Refinery	TURKEY
Gold	Italpreziosi	ITALY
Gold	Japan Mint	JAPAN
Gold	Jiangxi Copper Co., Ltd.	CHINA
Gold	JSC Uralelectromed	RUSSIAN FEDERATION
Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Gold	Kazzinc	KAZAKHSTAN

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
Gold	Kojima Chemicals Co., Ltd.	JAPAN
Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Gold	Kyrgyzaltyn JSC	KYRGYZSTAN
Gold	L'Orfebre S.A.	ANDORRA
Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Gold	Marsam Metals	BRAZIL
Gold	Materion	UNITED STATES OF AMERICA
Gold	Matsuda Sangyo Co., Ltd.	JAPAN
Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
Gold	Metalor Technologies S.A.	SWITZERLAND
Gold	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Gold	Mitsubishi Materials Corporation	JAPAN
Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
Gold	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION
Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
Gold	NH Recytech Company	KOREA, REPUBLIC OF
Gold	Nihon Material Co., Ltd.	JAPAN
Gold	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	RUSSIAN FEDERATION
Gold	OJSC Novosibirsk Refinery	RUSSIAN FEDERATION
Gold	PAMP S.A.	SWITZERLAND
Gold	Planta Recuperadora de Metales SpA	CHILE
Gold	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION
Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA
Gold	PX Precinox S.A.	SWITZERLAND
Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
Gold	REMONDIS PMR B.V.	NETHERLANDS
Gold	Royal Canadian Mint	CANADA
Gold	SAAMP	FRANCE
Gold	Safimet S.p.A	ITALY
Gold	Samduck Precious Metals	KOREA, REPUBLIC OF
Gold	SAXONIA Edelmetalle GmbH	GERMANY
Gold	SEMPSA Joyeria Plateria S.A.	SPAIN
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Gold	Singway Technology Co., Ltd.	TAIWAN
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION
Gold	Solar Applied Materials Technology Corp.	TAIWAN
Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN
Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
Gold	T.C.A S.p.A	ITALY
Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Gold	The Refinery of Shandong Gold Mining Co., Ltd.	CHINA
Gold	Tokuriki Honten Co., Ltd.	JAPAN
Gold	Torecom	KOREA, REPUBLIC OF
Gold	Umicore Brasil Ltda.	BRAZIL
Gold	Umicore Precious Metals Thailand	THAILAND
Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Gold	Valcambi S.A.	SWITZERLAND
Gold	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA
Gold	WIELAND Edelmetalle GmbH	GERMANY
Gold	Yamakin Co., Ltd.	JAPAN
Gold	Yokohama Metal Co., Ltd.	JAPAN
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Tantalum	Asaka Riken Co., Ltd.	JAPAN
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
Tantalum	Exotech Inc.	UNITED STATES OF AMERICA
Tantalum	F&X Electro-Materials Ltd.	CHINA
Tantalum	FIR Metals & Resource Ltd.	CHINA
Tantalum	Global Advanced Metals Aizu	JAPAN
Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Tantalum	Guangdong Rising Rare Metals-EO Materials Ltd.	CHINA
Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	CHINA
Tantalum	H.C. Starck Co., Ltd.	THAILAND
Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY



<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tantalum	H.C. Starck Inc.	UNITED STATES OF AMERICA
Tantalum	H.C. Starck Ltd.	JAPAN
Tantalum	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tantalum	H.C. Starck Tantalum and Niobium GmbH	GERMANY
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	Jiangxi Tuohong New Raw Material	CHINA
Tantalum	Jiujiang Janny New Material Co., Ltd.	CHINA
Tantalum	Jiujiang JinXin Nonferrous Metals Co., Ltd.	CHINA
Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	KEMET Blue Metals	MEXICO
Tantalum	KEMET Blue Powder	UNITED STATES OF AMERICA
Tantalum	LSM Brasil S.A.	BRAZIL
Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
Tantalum	Mineracao Taboca S.A.	BRAZIL
Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
Tantalum	NPM Silmet AS	ESTONIA
Tantalum	Power Resources Ltd.	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
Tantalum	QuantumClean	UNITED STATES OF AMERICA
Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION
Tantalum	Taki Chemical Co., Ltd.	JAPAN
Tantalum	Telex Metals	UNITED STATES OF AMERICA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
Tin	Alpha	UNITED STATES OF AMERICA
Tin	An Vinh Joint Stock Mineral Processing Company	VIET NAM
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
Tin	China Tin Group Co., Ltd.	CHINA
Tin	CV Ayi Jaya	INDONESIA
Tin	CV Dua Sekawan	INDONESIA
Tin	CV Gita Pesona	INDONESIA
Tin	CV United Smelting	INDONESIA
Tin	CV Venus Inti Perkasa	INDONESIA
Tin	Dowa	JAPAN
Tin	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
Tin	Fenix Metals	POLAND
Tin	Gejiu Fengming Metallurgy Chemical Plant	CHINA
Tin	Gejiu Kai Meng Industry and Trade LLC	CHINA
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA
Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Tin	Guanyang Guida Nonferrous Metal Smelting Plant	CHINA
Tin	HuiChang Hill Tin Industry Co., Ltd.	CHINA
Tin	Huichang Jinshunda Tin Co., Ltd.	CHINA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
Tin	Magnu's Minerai's Metais e Ligas Ltda.	BRAZIL
Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
Tin	Melt Metais e Ligas S.A.	BRAZIL
Tin	Metallic Resources, Inc.	UNITED STATES OF AMERICA
Tin	Metallo Belgium N.V.	BELGIUM
Tin	Metallo Spain S.L.U.	SPAIN
Tin	Mineracao Taboca S.A.	BRAZIL
Tin	Minsur	PERU
Tin	Mitsubishi Materials Corporation	JAPAN
Tin	Modeltech Sdn Bhd	MALAYSIA
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
Tin	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)
Tin	PT Aries Kencana Sejahtera	INDONESIA
Tin	PT Artha Cipta Langgeng	INDONESIA
Tin	PT ATD Makmur Mandiri Jaya	INDONESIA
Tin	PT Babel Inti Perkasa	INDONESIA
Tin	PT Bangka Prima Tin	INDONESIA
Tin	PT Bangka Serumpun	INDONESIA
Tin	PT Bangka Tin Industry	INDONESIA
Tin	PT Belitung Industri Sejahtera	INDONESIA
Tin	PT Bukit Timah	INDONESIA
Tin	PT DS Jaya Abadi	INDONESIA
Tin	PT Inti Stania Prima	INDONESIA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tin	PT Karimun Mining	INDONESIA
Tin	PT Kijang Jaya Mandiri	INDONESIA
Tin	PT Menara Cipta Mulia	INDONESIA
Tin	PT Mitra Stania Prima	INDONESIA
Tin	PT Panca Mega Persada	INDONESIA
Tin	PT Premium Tin Indonesia	INDONESIA
Tin	PT Prima Timah Utama	INDONESIA
Tin	PT Rajehan Ariq	INDONESIA
Tin	PT Refined Bangka Tin	INDONESIA
Tin	PT Sariwiguna Binasentosa	INDONESIA
Tin	PT Stanindo Inti Perkasa	INDONESIA
Tin	PT Sukses Inti Makmur	INDONESIA
Tin	PT Sumber Jaya Indah	INDONESIA
Tin	PT Timah Tbk Kundur	INDONESIA
Tin	PT Timah Tbk Mentok	INDONESIA
Tin	PT Tinindo Inter Nusa	INDONESIA
Tin	PT Tommy Utama	INDONESIA
Tin	Resind Industria e Comercio Ltda.	BRAZIL
Tin	Rui Da Hung	TAIWAN
Tin	Soft Metais Ltda.	BRAZIL
Tin	Thaisarco	THAILAND
Tin	Tin Technology & Refining	UNITED STATES OF AMERICA
Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Tin	Yunnan Tin Company Limited	CHINA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tungsten	A.L.M.T. Corp.	JAPAN
Tungsten	ACL Metais Eireli	BRAZIL
Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Tungsten	Fujian Jinxin Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
Tungsten	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
Tungsten	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tungsten	H.C. Starck Tungsten GmbH	GERMANY
Tungsten	Hunan Chenzhou Mining Co., Ltd.	CHINA
Tungsten	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	CHINA
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA
Tungsten	Hydrometallurg, JSC	RUSSIAN FEDERATION
Tungsten	Japan New Metals Co., Ltd.	JAPAN
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA
Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CHINA
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
Tungsten	Kennametal Fallon	UNITED STATES OF AMERICA

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>
Tungsten	Kennametal Huntsville	UNITED STATES OF AMERICA
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA
Tungsten	Masan Tungsten Chemical LLC (MTC)	VIET NAM
Tungsten	Moliren Ltd.	RUSSIAN FEDERATION
Tungsten	Niagara Refining LLC	UNITED STATES OF AMERICA
Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
Tungsten	South-East Nonferrous Metal Company Limited of Hengyang City	CHINA
Tungsten	Tejing (Vietnam) Tungsten Co., Ltd.	VIET NAM
Tungsten	Unecha Refractory metals plant	RUSSIAN FEDERATION
Tungsten	Wolfram Bergbau und Hutten AG	AUSTRIA
Tungsten	Woltech Korea Co., Ltd.	KOREA, REPUBLIC OF
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten Co., Ltd.	CHINA
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA
Tungsten	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	CHINA
Cobalt	Freeport Cobalt Oy	FINLAND
Cobalt	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA
Cobalt	Guangdong Jiana Energy Technology Co., Ltd.	CHINA
Cobalt	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA
Cobalt	Jiangsu Xiongfeng Technology Co., Ltd.	CHINA
Cobalt	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA
Cobalt	Tianjin Maolian Science & Technology Co., Ltd.	CHINA

Countries of origin for the minerals processed by these smelters may include:

Gold	Argentina, Armenia, Australia, Austria, Azerbaijan, Bahamas, Barbados, Belarus, Belgium, Benin, Bolivia (Plurinational State of), Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, Burkina Faso, Cambodia, Cameroon, Canada, Caymen Islands, Chile, China, Colombia, Croatia, Curacao (Dutch Antilles), Cyprus, Czech Republic, Democratic Republic of the Congo, Denmark, Dominican Republic, Ecuador, Egypt, El Salvador, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, Gabon, The Gambia, Georgia, Germany, Ghana, Greece, Guatemala, Guinea, Guyana, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Ireland, Israel, Italy, Ivory Coast, Japan, Jordan, Kazakstan, Kenya, Korea (Republic of), Kosovo, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Liberia, Libya, Liechtenstein, Lithuania, Luxembourg, Macau, Malaysia, Mali, Malta, Mauritania, Mauritius, Mexico, Mongolia, Morocco, Namibia, Netherlands, New Caledonia, New Zealand, Nicaragua, Niger, Nigeria, Norway, Pakistan, Panama, Papua New Guinea, Peru, Phillipines, Poland, Portugal, Puerto Rico, Romania, Russian Federation, San Marino, Saudi Arabia, Senegal, Serbia, Sierra Leone, Singapore, Slovakia, Slovenia, Solomon Islands, South Africa, Spain, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Trinidad and Tobago, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland, United States, Uruguay, Uzbekistan, Vatican City, Venezuela, Vietnam, Yemen, Zambia, and Zimbabwe
Tantalum	Australia, Austria, Bolivia (Plurinational State of), Brazil, Burundi, China, Colombia, Democratic Republic of the Congo, Ethiopia, Guinea, India, Madagascar, Malaysia, Mozambique, Nigeria, Russian Federation, Rwanda, Sierra Leone, and Thailand
Tin	Australia, Bolivia (Plurinational State of), Brazil, Burundi, China, Colombia, Democratic Republic of the Congo, Guinea, Indonesia, Laos, Malaysia, Mongolia, Myanmar, Nigeria, Peru, Portugal, Russian Federation, Rwanda, Taiwan, Thailand, Uganda, United Kingdom of Great Britain and Venezuela
Tungsten	Australia, Bolivia (Plurinational State of), Brazil, Burundi, China, Colombia, Democratic Republic of the Congo, Guinea, Indonesia, Japan, Laos, Malaysia, Mongolia, Myanmar, Nigeria, Peru, Russian Federation, Rwanda, Taiwan, Thailand, United Kingdom of Great Britain and Northern Ireland, United States