
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
WASHINGTON, D.C. 20549

FORM SD

SPECIALIZED DISCLOSURE REPORT

RIBBON COMMUNICATIONS INC.

(Exact Name of Registrant as Specified in its Charter)

DELAWARE
(State or Other Jurisdiction
of Incorporation)

001-38267
(Commission File Number)

82-1669692
(IRS Employer
Identification No.)

6500 Chase Oaks Blvd, Suite 100, Plano, TX 75023
(Address of Principal Executive Offices) (Zip Code)

Patrick W. Macken, Executive Vice President, Chief Legal Officer and Secretary
(978) 614-8100
(Name and telephone number, including area code, of the person to contact in connection with this report)

Check the appropriate box to indicate the rule pursuant to which this form is being filed, and provide the period to which the information in this form applies:

Rule 13p-1 under the Securities Exchange Act (17 CFR 240.13p-1) for the reporting period from January 1 to December 31, 2022.

Section 1 — Conflict Minerals Disclosure

Item 1.01. Conflict Minerals Disclosure and Report

Ribbon Communications Inc. (the “Company” or “Ribbon”) has determined that some of the products that it manufactured or contracted to manufacture through the end of reporting year 2022 (“Ribbon Products”), include gold, columbite-tantalite (coltan), cassiterite and wolframite, including their derivatives, tantalum, tin and tungsten (collectively, “Conflict Minerals”). The Company has further determined that these Conflict Minerals are necessary to the functionality or production of the Ribbon Products.

The Company conducted a Reasonable Country of Origin Inquiry (“RCOI”) to determine whether any of the Conflict Minerals in the Ribbon Products originated in the Democratic Republic of the Congo or an adjoining country (“Covered Country”) and whether the Conflict Minerals are from recycled or scrap sources. Based on its RCOI, the Company knows or has reason to believe that some of the Conflict Minerals in the Ribbon Products originated in the Covered Countries and are not from recycled or scrap sources. The Company therefore engaged in due diligence on the source and chain of custody of the Conflict Minerals in the Ribbon Products that originated or may have originated in the Covered Countries, as described in its Conflict Minerals Report filed herewith as Exhibit 1.01, and available on the Investor Relations — Corporate Governance section of the Company’s website at <http://investors.ribboncommunications.com/governance.cfm>.

Item 1.02. Exhibit

In accordance with Rule 13p-1 under the Securities Exchange Act of 1934, the Company is filing as an exhibit to this Form SD the Conflict Minerals Report required by Item 1.01.

Section 2 — Exhibits

Item 2.01. Exhibits

The following exhibit is filed as part of this Form SD:

[Exhibit 1.01](#) [Conflict Minerals Report for the year ended December 31, 2022, as required by Items 1.01 and 1.02 of this Form SD.](#)

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

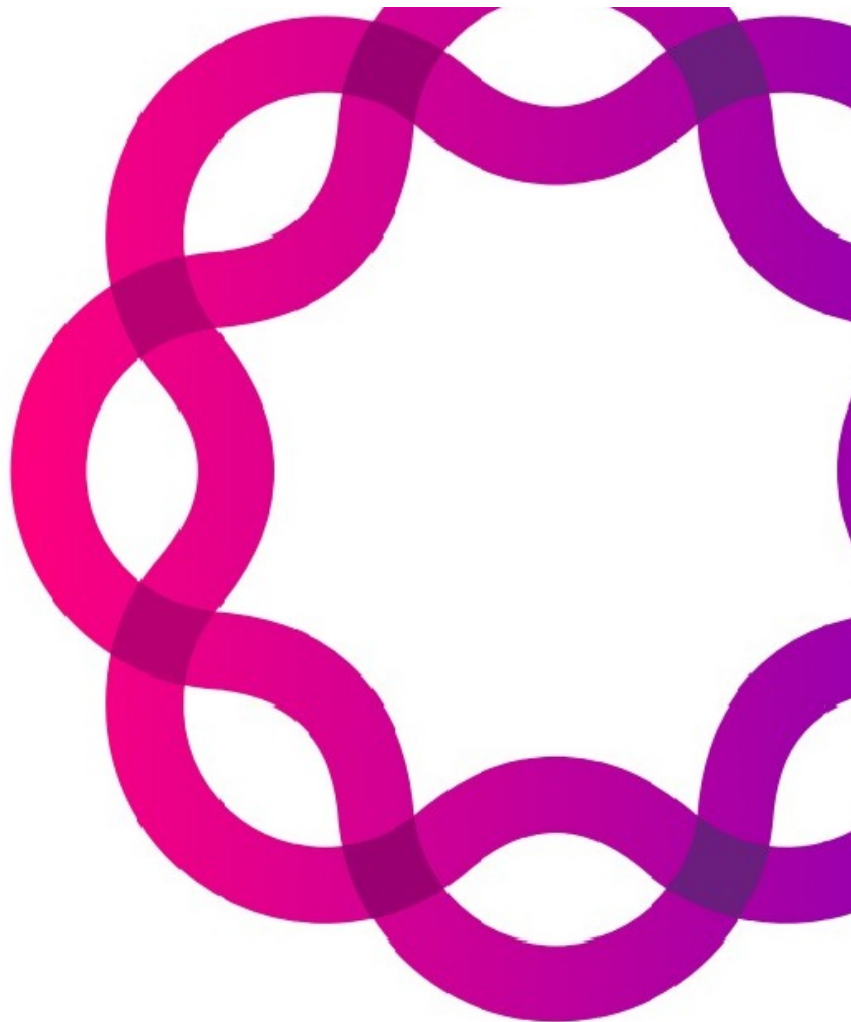
Date: May 31, 2023

RIBBON COMMUNICATIONS INC.

By: /s/ Patrick W. Macken

Patrick W. Macken

Executive Vice President, Chief Legal Officer and Secretary



**RIBBON COMMUNICATIONS INC.
CONFLICT MINERALS REPORT
2022**

**PURSUANT TO RULE 13P-1 UNDER THE SECURITIES
EXCHANGE ACT OF 1934**



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RIBBON COMMUNICATIONS INC. ("RIBBON") presents this Conflict Minerals Report for the reporting period of January 1, 2022 to December 31, 2022 pursuant to Rule 13p-1 under the Securities Exchange Act of 1934 and associated guidance issued by the Securities and Exchange Commission.

This document represents Exhibit 1.01 to Form SD, the Conflict Minerals Report.

2022 SUMMARY

805
total suppliers representing **100%**
of in-scope suppliers requested to
complete Conflict Minerals Reporting
Template (CMRT)

78%
suppliers completed CMRTs in
2022, the same as 2021

7%
fewer suppliers in scope for CMRT
requests compared to 2021

66%
of manufacturers were Democratic
Republic of the Congo (DRC) Conflict Free

13%
of manufacturers were not
affected

21%
of manufacturers were DRC Conflict
Undeterminable

100%
of smelters who completed a CMRT maintain
a responsible minerals sourcing policy and
conduct due diligence with their suppliers

100%
of smelters who completed a CMRT
filed an independent Form SD

Introduction

This report for the year ended December 31, 2022 has been prepared by Ribbon Communications Inc. (the "Company", "Ribbon", "we," "us," or "our") to comply with Rule 13p-1 (the "Rule") under the Securities Exchange Act of 1934, as amended. The Rule imposes certain disclosure and reporting obligations on companies that report with the SEC and which manufacture, or contract to have manufactured, products containing conflict minerals that are necessary to the functionality or production of those products. Conflict Minerals are defined as cassiterite, columbite-tantalite, gold, wolframite, and their derivatives, which are limited to tin, tantalum, tungsten, and gold (collectively, "Conflict Minerals").

Ribbon has determined that some of the products that it manufactured or contracted to manufacture, and which continue to be manufactured or contracted to manufacture by Ribbon through the end of reporting year 2022 ("Ribbon Products") include Conflict Minerals.

Company Overview

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. Ribbon maintains a keen focus on our commitments to Environmental, Social and Governance (ESG)

matters and report to our stakeholders through our annual Sustainability Report. To learn more about Ribbon, please visit rbbn.com.

Conflict Minerals Policy

Ribbon has adopted a Conflict Minerals Policy and communicated such policy to its suppliers. This policy is available on the Investor Relations-Corporate Governance section of the Company's website at <https://investors.ribboncommunications.com/static-files/79ec23fd-657e-4d9b-8d90-5e2daec9c183>.

Products Overview

This report covers the following Ribbon Products that were manufactured in 2022 (the "2022 Ribbon Products"): SBCs, DSCs, Voice over IP (VoIP) trunking solutions, policy/routing servers, media and signaling gateways, including the GSX 9000 High-Density Media Gateway and network analytics tools.

Supply Chain and Reasonable Country of Origin Inquiry

Ribbon has determined that Conflict Minerals are necessary to the functionality or production of Ribbon Products manufactured or contracted to be manufactured during 2022. We utilize an outsourced supply chain model pursuant to which our contract manufacturers procure materials on our behalf. Our supply chain is multi-tiered, global and complex, and we outsource the manufacturing of our hardware products such that we are many steps removed from the mining and smelting or refining of Conflict Minerals. Therefore, we rely upon our suppliers to provide information on the origin, source and chain of custody of the Conflict

Minerals contained in product components and materials. Some of these suppliers may themselves purchase from lower tier suppliers and not directly from a miner, smelter or refiner.

The Company conducted a Reasonable Country of Origin Inquiry ("RCOI") to determine whether any of the Conflict Minerals in our 2022 Ribbon Products originated in the Democratic Republic of the Congo ("DRC") or an adjoining country (collectively, the "Covered Countries") and whether the Conflict Minerals are from recycled or scrap sources. Based on our RCOI, we know or have reason to believe that some of the Conflict Minerals in our 2022 Ribbon Products originated in the Covered Countries and are not from recycled or scrap sources.

Ribbon's RCOI measures included conducting a supply-chain survey with in-scope suppliers using the Responsible Minerals Initiative ("RMI") Reporting Template (the "Template"). The Template was developed to facilitate disclosure and communication of information regarding smelters that provide material to a company's supply chain. It includes questions regarding the supplier's conflict-free policy, engagement with its direct suppliers, and a listing of the smelters the company and its suppliers use. In addition, the Template contains questions about the origin of Conflict Minerals included in the company's products, as well as supplier due diligence. The Template was designed to provide companies with sufficient information regarding their suppliers' practices with respect to the sourcing of Conflict Minerals to enable such companies to comply with the requirements of the Rule.

Due Diligence Process

In accordance with the Rule, Ribbon undertook due diligence on the source and chain of custody of the Conflict Minerals in the 2022 Ribbon Products that originated or may have originated in the Covered Countries. The Company's due diligence measures were designed to conform, in all material respects, to the internationally recognized due diligence framework in The Organization for Economic Co-operation and Development ("OECD") Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas ("OECD Guidance") and the related supplements.

Due Diligence Measures

Ribbon performed the following due diligence measures in accordance with the OECD Guidance and the Rule:

OECD Guidance Step 1: Establish Strong Company Management Systems

- Ribbon's Conflict Minerals compliance efforts are overseen by the Company's Vice President, Manufacturing, Operations and Supply Chain and its manufacturing department, and supported and sponsored by the Company's engineering, audit and legal departments. Ribbon employees who are responsible for Conflict Minerals compliance have received training regarding Conflict Minerals compliance. The team was structured to ensure critical information, including our policies related to this subject matter, reached relevant employees and suppliers. To the extent red flags or other issues are identified in the supplier data acquisition or engagement processes, these issues and red flags will be addressed first by the responsible individuals within the engineering, audit and legal departments, and, if deemed necessary,

will then be reported to and reviewed by the Audit Committee (the "Audit Committee") of the Board of Directors at regularly scheduled meetings on an annual basis.

- Ribbon also engaged SiliconExpert Technologies, a provider of electronic component data and BOM Management software to the electronics industry ("SiliconExpert"), to assist with its Conflict Minerals compliance efforts. Frequent status meetings are held between Ribbon's Conflict Minerals support team and SiliconExpert, with Ribbon management receiving status updates on progress and due diligence efforts on a regular and timely basis.
- In addition, Ribbon has a Conflict Minerals Policy and communicates such policy to its suppliers, which is available on our Investor Relations – Corporate Governance section of our website at <https://investors.ribboncommunications.com/static-files/79ec23fd-657e-4d9b-8d90-5e2daec9c183>.
- To the extent any employee, officer or director has concerns or grievances about the Company's potential use of Conflict Minerals, such individual is urged to contact his or her manager, the Company's Chief Financial Officer, the General Counsel or other member of senior management, the Employee Hotline (which can be used on an anonymous basis) or the Audit Committee.
- Ribbon established documentation and record maintenance mechanisms to ensure the retention of information relevant to the Company's Conflict Minerals Policy electronically.

OECD Guidance Step 2: Identify and Assess Risk in the Supply Chain

- Ribbon reviewed the information reported on the Template by its suppliers and followed up with any additional questions. To the extent an in-scope supplier had follow-up questions, Ribbon responded with all requested information, including part numbers and manufacturing lots to identify how the supplies were used in the Ribbon Products.
- Untimely or incomplete responses as well as inconsistencies within the data reported by suppliers were addressed directly with respective suppliers to provide the required and/or revised responses. Ribbon utilizes a series of escalating responses to address the failure of a supplier to provide the information required by the Template.
- Ribbon's engineering, audit and legal departments manage the collection of information reported on the Template by its suppliers.
- Ribbon collected a list of smelters/processors that are in our supply chain for the Ribbon Products using the Template and reconciled this list to the list of smelter facilities designated by the Responsible Minerals Assurance Process ("RMAP"). Ribbon has provided that list in this report.
- Ribbon, through SiliconExpert, followed up with suppliers that did not respond initially to our requests to complete the Template.

OECD Guidance Step 3: Design and Implement a Strategy to Respond to Identified Risks

- Ribbon adopted and used the Template to monitor and mitigate supply chain risk and took the steps described above.
- Ribbon worked with certain suppliers to better educate them on the Conflict Minerals process.
- Members of the Conflict Minerals team periodically report to senior management as well as the Audit Committee on program developments and progress.

OECD Guidance Step 4: Carry Out Independent Third-Party Audit of Supply Chain Due Diligence

- Given that we do not generally have a direct relationship with the smelters and refineries that process the Conflict Minerals that are present in our Ribbon Products, we rely on the RMI to conduct audits of and validate the conflict-free status of smelters and refineries that source from Covered Countries. We have not relied on supplier representations concerning the conflict status of their smelters, but have required industry certification such as through the RMAP before concluding that a smelter or refinery is conflict free. We understand that this program is continuing to audit smelters and refineries to add to its Conflict-Free Smelter List.

OECD Guidance Step 5: Report on Supply Chain Due Diligence

As required by the Rule, we have filed a Form SD and a Conflict Minerals Report as an exhibit thereto for the 2022 calendar year reporting period. In accordance with OECD Guidance and the Rule, this report is available on our Investor Relations-Corporate Governance section of our website at:

<https://investors.ribboncommunications.com/corporate-governance/governance-highlights>

Due Diligence Results

Ribbon contacted 100% of a total of 805 in-scope suppliers (excluding distributors and service providers) for the 2022 Ribbon Products and received some degree of a response from all of them.

78% of in-scope suppliers provided responses to the CMRT survey.

Ribbon Supplier Outreach Overview: 2022

Total in-scope suppliers contacted	805
Manufacturers providing CMRT documents/data	626
Manufacturers not providing CMRT responses	179
Overall response rate	78%

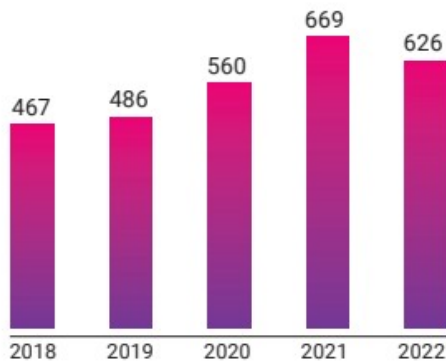
The large majority of the completed responses received provided conflict mineral data and a declaration at a "Company Level" (supplier/company declaration represents all the supplier's products) or "Divisional Level" (supplier/company declaration represents all the supplier's products from a division of the company). As a result, we are unable to determine whether any of the Conflict Minerals reported by the suppliers were contained in specific components or parts supplied to us with regard to Ribbon Products.

Further, while our suppliers for the Ribbon Products identified certain of the smelters and refineries that provided Conflict Minerals, the responses did not provide specific information regarding the smelters or refineries of the Conflict Minerals in the particular components used in the 2022 Ribbon Products. Based on the responses we received from our suppliers, however, we believe the facilities used to produce the Conflict Minerals in the 2022 Ribbon Products may include the smelters and refineries listed in [Annex A](#). In addition, based on the supplier responses, we believe the countries of origin of the Conflict Minerals in the 2022 Ribbon Products may include those listed in [Annex B](#).

In 2022, the total number of in-scope manufacturers responding to Ribbon’s CMRT request was more than 600 manufacturers, a response rate of 78%, for the second consecutive year.

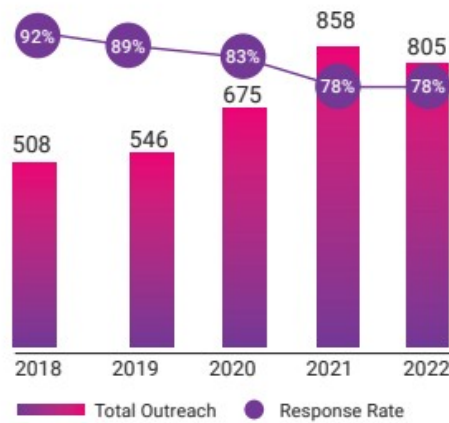
Over the years, Ribbon has increased the pool of in-scope suppliers as business has expanded. Ribbon’s ability to secure responses from a greater number of suppliers is the result of consistent efforts to reach out to suppliers to educate them on the importance of conflict minerals management and secure full responses to our CMRT requests.

MANUFACTURERS PROVIDING CMRTS



In 2022, we were successful in maintaining a strong response rate of 78%, the same as in 2021, with a higher level of supplier outreach than we conducted pre-2021.

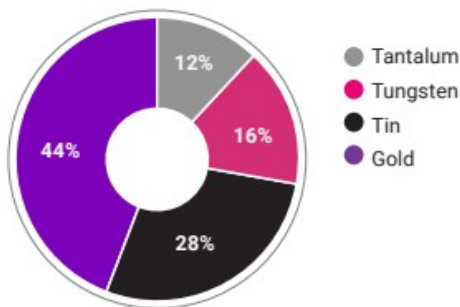
OVERVIEW OF CMRT OUTREACH AND RESPONSE RATE



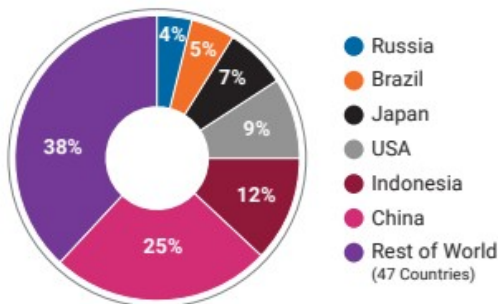
Smelters in Our Supply Base

450 total smelters/
refiners
from **53** countries
with mines in **95** countries

SMELTERS BY METALS MINED



SMELTERS BY COUNTRY



Risk Mitigation Steps to Be Taken for 2023 Due Diligence

Ribbon intends to take the following steps, as appropriate, during the next compliance period to further improve our due diligence process and results and to further mitigate the risk that our necessary Conflict Minerals benefit armed groups in the DRC or adjoining countries:

- Continue to focus on additional ways to improve quality and quantity of supplier response rates;
- Continue to work with suppliers to better educate them on the process;
- Continue to compare survey results to information collected via independent conflict free smelter validation programs such as the RMAP;
- Seek to implement standard procedures for corrective action or phasing out of suppliers not found to be DRC conflict free;
- Continue to adhere to the OECD Guidance; and
- Seek to work with suppliers who use appropriate due diligence methods and have continuous monitoring of both the direct and indirect supply chain to avoid procurement or use of Conflict Minerals.

Audit

An independent private sector audit was not required for reporting year 2022.

Important Information Regarding Forward-Looking Statements

The information in this report contains “forward-looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to a number of risks and uncertainties. All statements other than statements of historical facts contained in this report, including statements in the section “Risk Mitigation Steps to Be Taken for 2023 Due Diligence,” are forward-looking statements. Without limiting the foregoing, the words “anticipates”, “believes”, “could”, “estimates”, “expects”, “expectations”, “intends”, “may”, “plans”, “seeks”, “projects” and other similar language, whether in the negative or affirmative, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict.

Ribbon therefore cautions readers against undue reliance on any of these forward-looking statements. Any forward-looking statement made by Ribbon in this report speaks only as of the date of this report. Ribbon undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law.

Documents Incorporated by Reference

Unless otherwise stated herein, any documents, third party materials or references to websites (including Ribbon’s) are not incorporated by reference in, or considered to be a part of, this report unless expressly incorporated by reference herein.

Annex A List of Smelters

We present in this report a list of smelters or refineries provided by those suppliers who completed the smelter list on our Template, to the extent reasonably determinable, and that may have provided Conflict Minerals in any of the 2022 Ribbon Products. The table below includes only facilities, to the extent known, that have been validated by the RMI as facilities that are certified Conflict-Free or are listed on the Template as "known smelters or refineries".

Metal	Smelter Name	Smelter Country
Tantalum (Ta)	5D Production OU	ESTONIA
Gold (Au)	8853 S.p.A.	ITALY
Tungsten (W)	A.L.M.T. Corp.	JAPAN
Gold (Au)	ABC Refinery Pty Ltd.	AUSTRALIA
Gold (Au)	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA
Tungsten (W)	ACL Metais Eireli	BRAZIL
Gold (Au)	Advanced Chemical Company	UNITED STATES OF AMERICA
Gold (Au)	African Gold Refinery	UGANDA
Gold (Au)	Agosi AG	GERMANY
Gold (Au)	Aida Chemical Industries Co., Ltd.	JAPAN
Gold (Au)	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Tungsten (W)	Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.	BRAZIL
Gold (Au)	Albino Mountinho Lda.	PORTUGAL
Gold (Au)	Alexy Metals	UNITED STATES OF AMERICA
Gold (Au)	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Tin (Sn)	Alpha	UNITED STATES OF AMERICA
Tin (Sn)	Alpha Metals (Taiwan) Inc.	TAIWAN, PROVINCE OF CHINA
Tantalum (Ta)	AMG Brasil	BRAZIL
Tin (Sn)	An Thai Minerals Co., Ltd.	VIETNAM
Tin (Sn)	An Vinh Joint Stock Mineral Processing Company	VIETNAM
Gold (Au)	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Gold (Au)	Argor-Heraeus S.A.	SWITZERLAND
Tungsten (W)	Artek LLC	RUSSIAN FEDERATION
Gold (Au)	Asahi Pretec Corp.	JAPAN
Gold (Au)	Asahi Refining Canada Ltd.	CANADA
Gold (Au)	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Tantalum (Ta)	Asaka Riken Co., Ltd.	JAPAN
Gold (Au)	Asaka Riken Co., Ltd.	JAPAN
Tungsten (W)	Asia Tungsten Products Vietnam Ltd.	VIETNAM

Metal	Smelter Name	Smelter Country
Gold (Au)	Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	TURKEY
Gold (Au)	AU Traders and Refiners	SOUTH AFRICA
Gold (Au)	Augmont Enterprises Private Limited	INDIA
Gold (Au)	AURA-II	UNITED STATES OF AMERICA
Gold (Au)	Aurubis AG	GERMANY
Tin (Sn)	Aurubis Beerse	BELGIUM
Tin (Sn)	Aurubis Berango	SPAIN
Gold (Au)	Bangalore Refinery	INDIA
Gold (Au)	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
Gold (Au)	Bauer Walser AG	GERMANY
Gold (Au)	Boliden AB	SWEDEN
Gold (Au)	C. Hafner GmbH + Co. KG	GERMANY
Gold (Au)	C.I Metales Procesados Industriales SAS	COLOMBIA
Gold (Au)	Caridad	MEXICO
Gold (Au)	CCR Refinery - Glencore Canada Corporation	CANADA
Gold (Au)	Cendres + Metaux S.A.	SWITZERLAND
Gold (Au)	CGR Metalloys Pvt Ltd.	INDIA
Tantalum (Ta)	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Tin (Sn)	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Tin (Sn)	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
Gold (Au)	Chimet S.p.A.	ITALY
Tungsten (W)	China Minmetals Non-ferrous Metals Holding Co., Ltd.	CHINA
Tungsten (W)	China Molybdenum Tungsten Co., Ltd.	CHINA
Tin (Sn)	China Tin Group Co., Ltd.	CHINA
Tungsten (W)	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Gold (Au)	Chugai Mining	JAPAN
Tungsten (W)	CNMC (Guangxi) PGMA Co., Ltd.	CHINA
Tin (Sn)	CNMC (Guangxi) PGMA Co., Ltd.	CHINA
Tin (Sn)	COMERMET QUIM S.A. DE C.V.	MEXICO
Tin (Sn)	Cooperativa Metalurgica de Rondonia Ltda.	BRAZIL
Tungsten (W)	CP Metals Inc.	UNITED STATES OF AMERICA
Tantalum (Ta)	CP Metals Inc.	UNITED STATES OF AMERICA
Tin (Sn)	CRM Fundacao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	BRAZIL
Tin (Sn)	CRM Synergies	SPAIN
Tungsten (W)	Cronimet Brasil Ltda	BRAZIL
Tin (Sn)	CV Ayi Jaya	INDONESIA

Metal	Smelter Name	Smelter Country
Tin (Sn)	CV Dua Sekawan	INDONESIA
Tin (Sn)	CV Gita Pesona	INDONESIA
Tin (Sn)	CV United Smelting	INDONESIA
Tin (Sn)	CV Venus Inti Perkasa	INDONESIA
Tantalum (Ta)	D Block Metals, LLC	UNITED STATES OF AMERICA
Gold (Au)	Daejin Indus Co., Ltd.	KOREA, REPUBLIC OF
Gold (Au)	Daye Non-Ferrous Metals Mining Ltd.	CHINA
Tungsten (W)	Dayu Jincheng Tungsten Industry Co., Ltd.	CHINA
Tungsten (W)	Dayu Weiliang Tungsten Co., Ltd.	CHINA
Gold (Au)	Degussa Sonne / Mond Goldhandel GmbH	GERMANY
Gold (Au)	DHF Technical Products	UNITED STATES OF AMERICA
Gold (Au)	Dijllah Gold Refinery FZC	UNITED ARAB EMIRATES
Gold (Au)	DODUCO Contacts and Refining GmbH	GERMANY
Tin (Sn)	Dongguan CiEXPO Environmental Engineering Co., Ltd.	CHINA
Tungsten (W)	DONGKUK INDUSTRIES CO., LTD.	KOREA, REPUBLIC OF
Gold (Au)	Dongwu Gold Group	CHINA
Tin (Sn)	Dowa	JAPAN
Gold (Au)	Dowa	JAPAN
Tin (Sn)	Dragon Silver Holdings Limited	CHINA
Tin (Sn)	DS Myanmar	MYANMAR
Gold (Au)	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Tantalum (Ta)	Duoluoshan	CHINA
Gold (Au)	Eco-System Recycling Co., Ltd. East Plant	JAPAN
Gold (Au)	Eco-System Recycling Co., Ltd. North Plant	JAPAN
Gold (Au)	Eco-System Recycling Co., Ltd. West Plant	JAPAN
Tin (Sn)	Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company	VIETNAM
Gold (Au)	Elemetal Refining, LLC	UNITED STATES OF AMERICA
Tin (Sn)	Elemetal Refining, LLC	UNITED STATES OF AMERICA
Tin (Sn)	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
Gold (Au)	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
Gold (Au)	Emerald Jewel Industry India Limited (Unit 1)	INDIA
Gold (Au)	Emerald Jewel Industry India Limited (Unit 2)	INDIA
Gold (Au)	Emerald Jewel Industry India Limited (Unit 3)	INDIA
Gold (Au)	Emerald Jewel Industry India Limited (Unit 4)	INDIA
Gold (Au)	Emirates Gold DMCC	UNITED ARAB EMIRATES

Metal	Smelter Name	Smelter Country
Tin (Sn)	Estanho de Rondonia S.A.	BRAZIL
Tantalum (Ta)	Exotech Inc.	UNITED STATES OF AMERICA
Tantalum (Ta)	F&X Electro-Materials Ltd.	CHINA
Tin (Sn)	Fabrica Auricchio Industria e Comercio Ltda.	BRAZIL
Gold (Au)	Faggi Enrico S.p.A.	ITALY
Tin (Sn)	Fenix Metals	POLAND
Gold (Au)	Fidelity Printers and Refiners Ltd.	ZIMBABWE
Tantalum (Ta)	FIR Metals & Resource Ltd.	CHINA
Gold (Au)	Fujairah Gold FZC	UNITED ARAB EMIRATES
Tungsten (W)	Fujian Ganmin RareMetal Co., Ltd.	CHINA
Tungsten (W)	Fujian Jinxin Tungsten Co., Ltd.	CHINA
Tungsten (W)	Fujian Xinlu Tungsten Co., Ltd.	CHINA
Tungsten (W)	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Tungsten (W)	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Tungsten (W)	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
Tungsten (W)	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
Tungsten (W)	Ganzhou Yatai Tungsten Co., Ltd.	CHINA
Gold (Au)	Geib Refining Corporation	UNITED STATES OF AMERICA
Tin (Sn)	Gejiu City Fuxiang Industry and Trade Co., Ltd.	CHINA
Tin (Sn)	Gejiu Fengming Metallurgy Chemical Plant	CHINA
Tin (Sn)	Gejiu Jinye Mineral Company	CHINA
Tin (Sn)	Gejiu Kai Meng Industry and Trade LLC	CHINA
Tin (Sn)	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Tin (Sn)	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA
Tin (Sn)	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA
Gold (Au)	GGC Gujrat Gold Centre Pvt. Ltd.	INDIA
Tantalum (Ta)	Global Advanced Metals	UNITED STATES OF AMERICA
Tantalum (Ta)	Global Advanced Metals Aizu	JAPAN
Tantalum (Ta)	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Tungsten (W)	Global Tungsten & Powders LLC	UNITED STATES OF AMERICA
Gold (Au)	Gold by Gold Colombia	COLOMBIA
Gold (Au)	Gold Coast Refinery	GHANA
Gold (Au)	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Gold (Au)	Great Wall Precious Metals Co., Ltd. of CBPM	CHINA
Tin (Sn)	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Gold (Au)	Guangdong Jinding Gold Limited	CHINA
Tantalum (Ta)	Guangdong Rising Rare Metals-EO Materials Ltd.	CHINA

Metal	Smelter Name	Smelter Country
Tungsten (W)	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
Tin (Sn)	Guanyang Guida Nonferrous Metal Smelting Plant	CHINA
Gold (Au)	Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CHINA
Tantalum (Ta)	H.C. Starck GmbH	GERMANY
Tantalum (Ta)	H.C. Starck Surface Technology and Ceramic Powders GmbH	GERMANY
Tungsten (W)	H.C. Starck Tungsten GmbH	GERMANY
Gold (Au)	Hangzhou Fuchunjiang Smelting Co., Ltd.	CHINA
Tungsten (W)	HANNAE FOR T Co., Ltd.	KOREA, REPUBLIC OF
Gold (Au)	Heimerle + Meule GmbH	GERMANY
Gold (Au)	Henan Yuguang Gold & Lead Co., Ltd.	CHINA
Tantalum (Ta)	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Gold (Au)	Heraeus Germany GmbH Co. KG	GERMANY
Gold (Au)	Heraeus Metals Hong Kong Ltd.	CHINA
Tantalum (Ta)	Hi-Temp Specialty Metals, Inc.	UNITED STATES OF AMERICA
Tungsten (W)	Hubei Green Tungsten Co., Ltd.	CHINA
Tin (Sn)	HuiChang Hill Tin Industry Co., Ltd.	CHINA
Tin (Sn)	Huichang Jinshunda Tin Co., Ltd.	CHINA
Tungsten (W)	Hunan Chenzhou Mining Co., Ltd.	CHINA
Gold (Au)	Hunan Chenzhou Mining Co., Ltd.	CHINA
Tungsten (W)	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	CHINA
Gold (Au)	Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd.	CHINA
Tungsten (W)	Hunan Jintai New Material Co., Ltd.	CHINA
Tungsten (W)	Hunan Litian Tungsten Industry Co., Ltd.	CHINA
Tungsten (W)	Hunan Shizhuyuan Nonferrous Metals Co., Ltd. Chenzhou Tungsten Products Branch	CHINA
Gold (Au)	HwaSeong CJ CO., LTD.	KOREA, REPUBLIC OF
Tungsten (W)	Hydrometallurg, JSC	RUSSIAN FEDERATION
Gold (Au)	Industrial Refining Company	BELGIUM
Gold (Au)	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
Gold (Au)	International Precious Metal Refiners	UNITED ARAB EMIRATES
Gold (Au)	Ishifuku Metal Industry Co., Ltd.	JAPAN
Gold (Au)	Istanbul Gold Refinery	TURKEY
Gold (Au)	Italpreziosi	ITALY
Gold (Au)	JALAN & Company	INDIA

Metal	Smelter Name	Smelter Country
Gold (Au)	Japan Mint	JAPAN
Tungsten (W)	Japan New Metals Co., Ltd.	JAPAN
Tungsten (W)	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
Gold (Au)	Jiangxi Copper Co., Ltd.	CHINA
Tantalum (Ta)	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Tungsten (W)	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
Tin (Sn)	Jiangxi Ketai Advanced Material Co., Ltd.	CHINA
Tungsten (W)	Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.	CHINA
Tin (Sn)	Jiangxi New Nanshan Technology Ltd.	CHINA
Tungsten (W)	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA
Tantalum (Ta)	Jiangxi Tuohong New Raw Material	CHINA
Tungsten (W)	Jiangxi Xianglu Tungsten Co., Ltd.	CHINA
Tungsten (W)	Jiangxi Xincheng Tungsten Industry Co., Ltd.	CHINA
Tungsten (W)	Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd.	CHINA
Tungsten (W)	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
Tin (Sn)	Jin Zhi Dao Tin Co., Ltd.	CHINA
Gold (Au)	Jinli Enterprice Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Tantalum (Ta)	Jiujiang Janny New Material Co., Ltd.	CHINA
Tantalum (Ta)	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA
Tantalum (Ta)	Jiujiang Tanbre Co., Ltd.	CHINA
Tantalum (Ta)	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Tungsten (W)	JSC "Kirovgrad Hard Alloys Plant"	RUSSIAN FEDERATION
Gold (Au)	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	RUSSIAN FEDERATION
Gold (Au)	JSC Novosibirsk Refinery	RUSSIAN FEDERATION
Gold (Au)	JSC Uralelectromed	RUSSIAN FEDERATION
Gold (Au)	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Gold (Au)	K.A. Rasmussen	NORWAY
Gold (Au)	Kaloti Precious Metals	UNITED ARAB EMIRATES
Gold (Au)	Kazakhmys Smelting LLC	KAZAKHSTAN
Gold (Au)	Kazzinc	KAZAKHSTAN
Tantalum (Ta)	KEMET Blue Powder	UNITED STATES OF AMERICA
Tantalum (Ta)	KEMET Corp.	UNITED STATES OF AMERICA
Tantalum (Ta)	KEMET de Mexico	MEXICO
Tungsten (W)	Kennametal Fallon	UNITED STATES OF AMERICA
Tungsten (W)	Kennametal Huntsville	UNITED STATES OF AMERICA
Gold (Au)	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Tungsten (W)	KGETS Co., Ltd.	KOREA, REPUBLIC OF

Metal	Smelter Name	Smelter Country
Gold (Au)	KGHM Polska Miedz Spolka Akcyjna	POLAND
Tantalum (Ta)	King-Tan Tantalum Industry Ltd.	CHINA
Gold (Au)	Kojima Chemicals Co., Ltd.	JAPAN
Gold (Au)	Korea Metal Co., Ltd.	KOREA, REPUBLIC OF
Gold (Au)	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Gold (Au)	Kundan Care Products Ltd.	INDIA
Gold (Au)	Kyrgyzalbyn JSC	KYRGYZSTAN
Gold (Au)	Kyshtym Copper-Electrolytic Plant ZAO	RUSSIAN FEDERATION
Gold (Au)	L'azurde Company For Jewelry	SAUDI ARABIA
Tungsten (W)	Lianyou Metals Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold (Au)	Lingbao Gold Co., Ltd.	CHINA
Gold (Au)	Lingbao Jinyuan Tonghui Refinery Co., Ltd.	CHINA
Tin (Sn)	Linqu Xianggui Smelter Co., Ltd.	CHINA
Tungsten (W)	LLC Vostok	RUSSIAN FEDERATION
Gold (Au)	L'Orfebre S.A.	ANDORRA
Gold (Au)	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Gold (Au)	LT Metal Ltd.	KOREA, REPUBLIC OF
Tin (Sn)	Luna Smelter, Ltd.	RWANDA
Gold (Au)	Luoyang Zijin Yinhuai Gold Refinery Co., Ltd.	CHINA
Tin (Sn)	M/s ECO Tropical Resources	SINGAPORE
Tin (Sn)	Ma'anshan Weitai Tin Co., Ltd.	CHINA
Tin (Sn)	Magnu's Minerai's Metais e Ligas Ltda.	BRAZIL
Tin (Sn)	Malaysia Smelting Corporation (MSC)	MALAYSIA
Tungsten (W)	Malipo Haiyu Tungsten Co., Ltd.	CHINA
Gold (Au)	Marsam Metals	BRAZIL
Tungsten (W)	Masan High-Tech Materials	VIETNAM
Gold (Au)	Materion	UNITED STATES OF AMERICA
Tantalum (Ta)	Materion Newton Inc.	UNITED STATES OF AMERICA
Gold (Au)	Matsuda Sangyo Co., Ltd.	JAPAN
Gold (Au)	MD Overseas	INDIA
Tungsten (W)	Mehra Ferro-Alloys Pvt. Ltd.	INDIA
Tin (Sn)	Melt Metais e Ligas S.A.	BRAZIL
Tantalum (Ta)	Meta Materials	NORTH MACEDONIA, REPUBLIC OF
Gold (Au)	Metal Concentrators SA (Pty) Ltd.	SOUTH AFRICA
Tin (Sn)	Metallic Resources, Inc.	UNITED STATES OF AMERICA
Gold (Au)	Metallix Refining Inc.	UNITED STATES OF AMERICA
Tin (Sn)	Metallum Group Holding NV	BELGIUM

Metal	Smelter Name	Smelter Country
Tantalum (Ta)	Metallurgical Products India Pvt., Ltd.	INDIA
Gold (Au)	Metalor Technologies (Hong Kong) Ltd.	CHINA
Gold (Au)	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Gold (Au)	Metalor Technologies (Suzhou) Ltd.	CHINA
Gold (Au)	Metalor Technologies S.A.	SWITZERLAND
Gold (Au)	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
Gold (Au)	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Tin (Sn)	Mineracao Taboca S.A.	BRAZIL
Tantalum (Ta)	Mineracao Taboca S.A.	BRAZIL
Tin (Sn)	Minsur	PERU
Tin (Sn)	Mitsubishi Materials Corporation	JAPAN
Gold (Au)	Mitsubishi Materials Corporation	JAPAN
Tantalum (Ta)	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold (Au)	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold (Au)	MKS PAMP SA	SWITZERLAND
Gold (Au)	MMTC-PAMP India Pvt., Ltd.	INDIA
Gold (Au)	Modeltech Sdn Bhd	MALAYSIA
Tin (Sn)	Modeltech Sdn Bhd	MALAYSIA
Tungsten (W)	Moliren Ltd.	RUSSIAN FEDERATION
Gold (Au)	Morris and Watson	NEW ZEALAND
Gold (Au)	Morris and Watson Gold Coast	AUSTRALIA
Gold (Au)	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION
Tin (Sn)	Muchuan Industrial Co. LTD	HONG KONG
Gold (Au)	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Gold (Au)	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
Tin (Sn)	Nghe Tinh Non-Ferrous Metals Joint Stock Company	VIETNAM
Gold (Au)	NH Recytech Company	KOREA, REPUBLIC OF
Tungsten (W)	Niagara Refining LLC	UNITED STATES OF AMERICA
Gold (Au)	Nihon Material Co., Ltd.	JAPAN
Tantalum (Ta)	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
Tin (Sn)	Novosibirsk Tin Combine	RUSSIAN FEDERATION
Tantalum (Ta)	NPM Silmet AS	ESTONIA
Tungsten (W)	NPP Tyazhmetprom LLC	RUSSIAN FEDERATION
Tin (Sn)	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
Tin (Sn)	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
Gold (Au)	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA
Gold (Au)	Ohura Precious Metal Industry Co., Ltd.	JAPAN

Metal	Smelter Name	Smelter Country
Gold (Au)	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	RUSSIAN FEDERATION
Tungsten (W)	OOO "Technolom" 1	RUSSIAN FEDERATION
Tungsten (W)	OOO "Technolom" 2	RUSSIAN FEDERATION
Tin (Sn)	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)
Gold (Au)	Pease & Curren	UNITED STATES OF AMERICA
Gold (Au)	Penglai Penggang Gold Industry Co., Ltd.	CHINA
Tungsten (W)	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
Tantalum (Ta)	Plansee SE	AUSTRIA
Tantalum (Ta)	Plansee SE Liezen	AUSTRIA
Tantalum (Ta)	Plansee SE Reutte	AUSTRIA
Gold (Au)	Planta Recuperadora de Metales SpA	CHILE
Tin (Sn)	Pongpipat Company Limited	MYANMAR
Tin (Sn)	Precious Minerals and Smelting Limited	INDIA
Gold (Au)	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION
Tin (Sn)	PT Alam Lestari Kencana	INDONESIA
Gold (Au)	PT Aneka Tambang (Persero) Tbk	INDONESIA
Tin (Sn)	PT Aries Kencana Sejahtera	INDONESIA
Tin (Sn)	PT Artha Cipta Langgeng	INDONESIA
Tin (Sn)	PT ATD Makmur Mandiri Jaya	INDONESIA
Tin (Sn)	PT Babel Inti Perkasa	INDONESIA
Tin (Sn)	PT Babel Surya Alam Lestari	INDONESIA
Tin (Sn)	PT Bangka Kudai Tin	INDONESIA
Tin (Sn)	PT Bangka Prima Tin	INDONESIA
Tin (Sn)	PT Bangka Putra Karya	INDONESIA
Tin (Sn)	PT Bangka Serumpun	INDONESIA
Tin (Sn)	PT Bangka Timah Utama Sejahtera	INDONESIA
Tin (Sn)	PT Bangka Tin Industry	INDONESIA
Tin (Sn)	PT Belitung Industri Sejahtera	INDONESIA
Tin (Sn)	PT BilliTin Makmur Lestari	INDONESIA
Tin (Sn)	PT Bukit Timah	INDONESIA
Tin (Sn)	PT Cipta Persada Mulia	INDONESIA
Tin (Sn)	PT DS Jaya Abadi	INDONESIA
Tin (Sn)	PT Eunindo Usaha Mandiri	INDONESIA
Tin (Sn)	PT Inti Stania Prima	INDONESIA
Tin (Sn)	PT Justindo	INDONESIA
Tin (Sn)	PT Karimun Mining	INDONESIA
Tin (Sn)	PT Kijang Jaya Mandiri	INDONESIA

Metal	Smelter Name	Smelter Country
Tin (Sn)	PT Lautan Harmonis Sejahtera	INDONESIA
Tin (Sn)	PT Masbro Alam Stania	INDONESIA
Tin (Sn)	PT Menara Cipta Mulia	INDONESIA
Tin (Sn)	PT Mitra Stania Prima	INDONESIA
Tin (Sn)	PT Mitra Sukses Globalindo	INDONESIA
Tin (Sn)	PT O.M. Indonesia	INDONESIA
Tin (Sn)	PT Panca Mega Persada	INDONESIA
Tin (Sn)	PT Premium Tin Indonesia	INDONESIA
Tin (Sn)	PT Prima Timah Utama	INDONESIA
Tin (Sn)	PT Putera Sarana Shakti (PT PSS)	INDONESIA
Tin (Sn)	PT Rajawali Rimba Perkasa	INDONESIA
Tin (Sn)	PT Rajehan Ariq	INDONESIA
Tin (Sn)	PT Refined Bangka Tin	INDONESIA
Tin (Sn)	PT Sariwiguna Binasentosa	INDONESIA
Tin (Sn)	PT Stanindo Inti Perkasa	INDONESIA
Tin (Sn)	PT Sukses Inti Makmur	INDONESIA
Tin (Sn)	PT Sumber Jaya Indah	INDONESIA
Tin (Sn)	PT Timah Nusantara	INDONESIA
Tin (Sn)	PT Timah Tbk Kundur	INDONESIA
Tin (Sn)	PT Timah Tbk Mentok	INDONESIA
Tin (Sn)	PT Tinindo Inter Nusa	INDONESIA
Tin (Sn)	PT Tirus Putra Mandiri	INDONESIA
Tin (Sn)	PT Tommy Utama	INDONESIA
Tin (Sn)	PT Wahana Perkit Jaya	INDONESIA
Gold (Au)	PX Precinox S.A.	SWITZERLAND
Gold (Au)	QG Refining, LLC	UNITED STATES OF AMERICA
Tantalum (Ta)	QSIL Metals Hermsdorf GmbH	GERMANY
Tantalum (Ta)	QuantumClean	UNITED STATES OF AMERICA
Gold (Au)	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
Gold (Au)	Refinery of Seemine Gold Co., Ltd.	CHINA
Gold (Au)	REMONDIS PMR B.V.	NETHERLANDS
Gold (Au)	Republic Metals Corporation	UNITED STATES OF AMERICA
Tin (Sn)	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum (Ta)	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum (Ta)	RFH Yancheng Jinye New Material Technology Co., Ltd.	CHINA
Gold (Au)	Royal Canadian Mint	CANADA
Tin (Sn)	RSR Technologies	UNITED STATES OF AMERICA

Metal	Smelter Name	Smelter Country
Tin (Sn)	Rui Da Hung	TAIWAN, PROVINCE OF CHINA
Gold (Au)	SAAMP	FRANCE
Gold (Au)	Sabin Metal Corp.	UNITED STATES OF AMERICA
Gold (Au)	Safimet S.p.A	ITALY
Gold (Au)	SAFINA A.S.	CZECHIA
Gold (Au)	Sai Refinery	INDIA
Gold (Au)	Samduck Precious Metals	KOREA, REPUBLIC OF
Gold (Au)	Samwon Metals Corp.	KOREA, REPUBLIC OF
Gold (Au)	Sancus ZFS (L'Orfebre, SA)	COLOMBIA
Tungsten (W)	Sanher Tungsten Vietnam Co., Ltd.	VIETNAM
Gold (Au)	SAXONIA Edelmetalle GmbH	GERMANY
Gold (Au)	Schone Edelmetaal B.V.	NETHERLANDS
Gold (Au)	Sellem Industries Ltd.	MAURITANIA
Gold (Au)	SEMPSA Joyeria Plateria S.A.	SPAIN
Gold (Au)	Shandong Gold Smelting Co., Ltd.	CHINA
Gold (Au)	Shandong Humon Smelting Co., Ltd.	CHINA
Gold (Au)	Shandong Tiancheng Biological Gold Industrial Co., Ltd.	CHINA
Gold (Au)	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Tin (Sn)	Shen Mao Solder (M) Sdn. Bhd	TAIWAN, PROVINCE OF CHINA
Gold (Au)	Shenzhen CuiLu Gold Co., Ltd.	CHINA
Gold (Au)	Shenzhen Zhonghenglong Real Industry Co., Ltd.	CHINA
Gold (Au)	Shirpur Gold Refinery Ltd.	INDIA
Gold (Au)	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Gold (Au)	Singway Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold (Au)	So Accurate Group, Inc.	UNITED STATES OF AMERICA
Gold (Au)	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION
Tin (Sn)	Soft Metais Ltda.	BRAZIL
Gold (Au)	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
Tantalum (Ta)	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION
Tungsten (W)	South-East Nonferrous Metal Company Limited of Hengyang City	CHINA
Gold (Au)	Sovereign Metals	INDIA
Gold (Au)	State Research Institute Center for Physical Sciences and Technology	LITHUANIA
Gold (Au)	Sudan Gold Refinery	SUDAN
Gold (Au)	Sumitomo Metal Mining Co., Ltd.	JAPAN
Gold (Au)	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF

Metal	Smelter Name	Smelter Country
Gold (Au)	Super Dragon Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Tin (Sn)	Super Ligas	BRAZIL
Gold (Au)	T.C.A S.p.A	ITALY
Tin (Sn)	Taicang City Nancang Metal Material Co., Ltd.	CHINA
Tantalum (Ta)	Taki Chemical Co., Ltd.	JAPAN
Gold (Au)	Tanaka Kikinzoku Kogyo K.K.	JAPAN
Tantalum (Ta)	TANIOBIS Co., Ltd.	THAILAND
Tantalum (Ta)	TANIOBIS GmbH	GERMANY
Tantalum (Ta)	TANIOBIS Japan Co., Ltd.	JAPAN
Tungsten (W)	TANIOBIS Smelting GmbH & Co. KG	GERMANY
Tantalum (Ta)	TANIOBIS Smelting GmbH & Co. KG	GERMANY
Tungsten (W)	Tejing (Vietnam) Tungsten Co., Ltd.	VIETNAM
Tantalum (Ta)	Telex Metals	UNITED STATES OF AMERICA
Tin (Sn)	Thai Nguyen Mining and Metallurgy Co., Ltd.	VIETNAM
Tin (Sn)	Thaisarco	THAILAND
Tin (Sn)	Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA
Tin (Sn)	Tin Technology & Refining	UNITED STATES OF AMERICA
Gold (Au)	Tokuriki Honten Co., Ltd.	JAPAN
Gold (Au)	Tongling Nonferrous Metals Group Co., Ltd.	CHINA
Gold (Au)	TOO Tau-Ken-Altyn	KAZAKHSTAN
Gold (Au)	Torecom	KOREA, REPUBLIC OF
Tantalum (Ta)	Tranzact, Inc.	UNITED STATES OF AMERICA
Gold (Au)	TSK Pretech	KOREA, REPUBLIC OF
Tin (Sn)	Tuyen Quang Non-Ferrous Metals Joint Stock Company	VIETNAM
Tantalum (Ta)	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Gold (Au)	Umicore Brasil Ltda.	BRAZIL
Gold (Au)	Umicore Precious Metals Thailand	THAILAND
Gold (Au)	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Tungsten (W)	Unecha Refractory metals plant	RUSSIAN FEDERATION
Gold (Au)	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Gold (Au)	Universal Precious Metals Refining Zambia	ZAMBIA
Gold (Au)	Valcambi S.A.	SWITZERLAND
Gold (Au)	Value Trading	BELGIUM
Tungsten (W)	Vietnam Youngsun Tungsten Industry Co., Ltd.	VIETNAM
Tin (Sn)	VQB Mineral and Trading Group JSC	VIETNAM
Gold (Au)	WEEEREFINING	FRANCE
Gold (Au)	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA

Metal	Smelter Name	Smelter Country
Tin (Sn)	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Gold (Au)	WIELAND Edelmetalle GmbH	GERMANY
Tungsten (W)	Wolfram Bergbau und Hutten AG	AUSTRIA
Tungsten (W)	WOLFRAM Company CJSC	RUSSIAN FEDERATION
Tungsten (W)	Woltech Korea Co., Ltd.	KOREA, REPUBLIC OF
Tungsten (W)	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Tungsten (W)	Xiamen Tungsten Co., Ltd.	CHINA
Tantalum (Ta)	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA
Tungsten (W)	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA
Tungsten (W)	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	CHINA
Tantalum (Ta)	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
Gold (Au)	Yamakin Co., Ltd.	JAPAN
Tantalum (Ta)	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
Tantalum (Ta)	Yichun Jin Yang Rare Metal Co., Ltd.	CHINA
Gold (Au)	Yokohama Metal Co., Ltd.	JAPAN
Tungsten (W)	YUDU ANSHENG TUNGSTEN CO., LTD.	CHINA
Tin (Sn)	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Gold (Au)	Yunnan Copper Industry Co., Ltd.	CHINA
Tin (Sn)	Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CHINA
Gold (Au)	Zhongkuang Gold Industry Co., Ltd.	CHINA
Gold (Au)	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Tungsten (W)	Zhuzhou Cemented Carbide Group Co., Ltd.	CHINA
Tantalum (Ta)	Zhuzhou Cemented Carbide Group Co., Ltd.	CHINA

Annex B List of Countries

Countries of origin of the Conflict Minerals in the 2022 Ribbon Products are believed to include:

Location of Mines: 95 countries

Afghanistan	Ecuador	Liberia	Sierra Leone
Albania	Egypt	Luxembourg	Singapore
Angola	Estonia	Madagascar	Slovakia
Argentina	Ethiopia	Malaysia	South Africa
Armenia	Finland	Mali	Spain
Australia	France	Mauritania	Sudan
Austria	Georgia	Mexico	Suriname
Azerbaijan	Germany	Mongolia	Sweden
Belgium	Ghana	Morocco	Switzerland
Bermuda	Guinea	Mozambique	Taiwan
Bolivia	Guyana	Myanmar	Tajikistan
Brazil	Hong Kong	Namibia	Tanzania
Bulgaria	Hungary	Netherlands	Thailand
Burkina Faso	India	New Zealand	The Netherlands
Burundi	Indonesia	Niger	Turkey
Cambodia	Ireland	Nigeria	Uganda
Canada	Israel	Papua New Guinea	United Arab Emirates
Central African Republic	Italy	Peru	United Kingdom of Great Britain and Northern Island
Chile	Japan	Philippines	United States of America
China	Kazakhstan	Poland	Uzbekistan
Colombia	Kenya	Portugal	Vietnam
Czech Republic	Korea	Russian Federation	Zambia
Democratic Republic of Congo	Kyrgyzstan	Rwanda	Zimbabwe
Djibouti	Laos	Saudi Arabia	