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

**FORM SD
SPECIALIZED DISCLOSURE REPORT
CONFLICT MINERALS**

TTM TECHNOLOGIES, INC.

(Exact name of the registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

0-31285
(Commission
File Number)

91-1033443
(IRS Employer
Identification No.)

1665 Scenic Avenue, Suite 250
Costa Mesa, California
(Address of principal executive offices)

92626
(Zip code)

Daniel J. Weber
(314) 746-2087
(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, 2018 to December 31, 2018.
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Section 1. Conflict Minerals Disclosure

Item 1.01 Conflict Minerals Disclosure and Report

(c) Conflict Minerals Report

In accordance with Rule 13p-1 under the Securities Exchange Act of 1934, as amended, and the instructions to Form SD, TTM Technologies, Inc. (the “Company”) is filing with this Form SD a Conflict Minerals Report, which is attached hereto as Exhibit 1.01 and incorporated herein by reference.

The Company’s Statement on its Conflict Minerals Policy and this Form SD, including the Company’s Conflict Minerals Report, are available on the Company’s website at <https://investors.ttm.com/corporate-governance/highlights>. The content of our website as referred to in this Form and Report is included for general information only and is not incorporated by reference herein.

Item 1.02 Exhibit

The Conflict Minerals Report required by Item 1.01 is filed as Exhibit 1.01 to this Form SD.

Section 2. Exhibits

Item 2.01 Exhibits

Exhibit 1.01 - [Conflict Minerals Report as required by Items 1.01 and 1.02 of this Form.](#)

SIGNATURES

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 duly authorized undersigned.

TTM TECHNOLOGIES, INC.

By: /s/ Daniel J. Weber

Name: Daniel J. Weber

Title: Senior Vice President, General Counsel and
Secretary

May 24, 2019

Exhibit 1.01 Conflict Minerals Report

This is the Conflict Minerals Report of TTM Technologies, Inc. (the “Company” or “TTM”) for the calendar year 2018 (ended December 31, 2018) in accordance with Rule 13p-1 (“Rule 13p-1”) under the Securities Exchange Act of 1934 (the “1934 Act”), and the instructions to Form SD. Please refer to Rule 13p-1, Form SD and the 1934 Act Release No. 34-67716 for definitions to the terms used in this Report, unless otherwise defined herein.

Rule 13p-1 and Form SD require the disclosure of certain information if a company manufactures or contracts to manufacture products for which certain “Conflict Minerals” (as defined below) are present in the products and necessary to the functionality of such products. Form SD defines “Conflict Minerals” as: (i)(a) columbite-tantalite (or coltan, the metal ore from which tantalum is extracted), (b) cassiterite (the metal ore from which tin is extracted), (c) gold and (d) wolframite (the metal ore from which tungsten is extracted), or their derivatives, which are currently limited to tantalum, tin and tungsten; or (ii) any other mineral or its derivatives determined by the U.S. Secretary of State to be financing conflict in the Democratic Republic of the Congo (“DRC”) or an adjoining country (collectively, the “Covered Countries”).

(1) Product Description

TTM is a leading global printed circuit board (“PCB”) manufacturer, focusing on quick-turn and volume production of technologically complex PCBs, backplane assemblies and electro-mechanical solutions (“E-M Solutions”), as well as a global designer and manufacturer of radio-frequency (“RF”) and microwave components and assemblies. The Company provides time-to-market and volume production of advanced technology products and offers a one-stop design, engineering and manufacturing solution to customers from engineering support to prototype development through final mass production. This one-stop design and manufacturing solution enables the Company to align technology developments with the diverse needs of the Company’s customers and to enable them to reduce the time required to develop new products and bring them to market. The Company serves a diversified customer base in various markets throughout the world, including aerospace and defense, automotive components, smart phones and touchscreen tablets, high-end computing, medical, industrial and instrumentation related products, as well as networking/communications infrastructure products. The Company’s customers include both original equipment manufacturers (“OEMs”) and electronic manufacturing services (“EMS”) providers. On April 18, 2018, TTM acquired all of the equity interests of Anaren, Inc. (“Anaren”), which was a leading designer and provider of mission-critical RF solutions, microelectronics, and microwave components and assemblies for the wireless infrastructure and aerospace and defense electronic markets. Anaren’s products are incorporated into this report for calendar year 2018 and are referred to herein as “Anaren products.”

As a company whose business is electronics manufacturing and assembly, TTM is several levels removed from the actual mining and refining of Conflict Minerals. TTM does not purchase raw ore or unrefined Conflict Minerals and makes no direct purchases in the Covered Countries.

Our customers, who may also have a responsibility to conduct due diligence as to the source of Conflict Minerals used in their products, frequently specify the exact materials and components we use, and in many cases specify the suppliers from which we source these minerals and components. As a result, we are limited in our ability to exercise discretion in sourcing certain materials and components. Similarly, our ability to influence the supply chain practices of suppliers selected by our customers is limited. Thus, our ability to change the sourcing of our Conflict Minerals depends on our customers’ selections of suppliers and designs.

(2) Due Diligence in Accordance with the Organization for Economic Cooperation and Development (the “OECD”)5-Step Framework

TTM has processes in place for the purpose of exercising due diligence over its supply chain as it relates to minerals from conflict-affected and high risk areas. The design of the due diligence processes conforms substantially to the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas and the related supplements for gold, tin, tantalum and tungsten (the “OECD Guidance”) as it relates to “downstream” purchasers of products and components. The due diligence processes have been described below under sub-headings corresponding to the five-step framework of the OECD Guidance.

Step 1 – Establish and Maintain Strong Company Management Systems

- 1.1 TTM has adopted a Conflict Minerals Policy and Statement (the “Policy”). A copy of the Policy, together with a copy of this Form SD and Conflict Minerals Report, can be found on the Company’s website at <https://investors.ttm.com/static-files/08e705e8-6139-41c3-b71c-520fc14b90bc>. The content of our website as referred to in this Form and Report is included for general information only and is not incorporated by reference herein. In accordance with the Policy, TTM is continuing to review its suppliers’ declarations and has sought their cooperation and assistance in ensuring that the Conflict Minerals used in TTM products are sourced reliably and responsibly. However, as noted in the Policy and above, TTM’s purchasing decisions are limited by the level of cooperation it receives from suppliers in sourcing responsibly from non-conflict areas.
- 1.2 TTM has a Conflict Minerals Steering Committee to review and enhance the cross-functional working group (the “Working Group”) tasked with developing policies and procedures consistent with the OECD Guidance.
- 1.3 In accordance with the requirements of Rule 13p-1 and the instructions to Form SD, the Working Group annually reviews the Company’s products, almost all of which are manufactured to customer specifications, to determine if they contain Conflict Minerals necessary to the products’ generally expected functions, use, purpose or production.
- 1.4 The Working Group concluded that the bare PCBs may contain either gold or tin in surface finishes, and the E-M Solutions and Anaren products manufactured in 2018 may contain any of the four Conflict Minerals in components.

Step 2 – Identify and Assess Risks in the Supply Chain

- 2.1 The Working Group has identified the suppliers of the materials and components that contain Conflict Minerals in TTM’s products and conducted a supply-chain survey to obtain source smelter identification from its suppliers of Conflict Minerals using the standard conflict minerals reporting template (“CMRT”) published by the Responsible Minerals Initiative (“RMI”) (formerly the Conflict Free Sourcing Initiative).
- 2.2 The CMRT was distributed to all identified suppliers of components or materials containing Conflict Minerals to determine the country of origin of the Conflict Minerals contained therein, and whether such Conflict Minerals were sourced from recycled or scrap materials. The CMRT requested information on Conflict Minerals in components or materials supplied to TTM during calendar year 2018 and contained representations as to the source and origin of the necessary Conflict Minerals contained in the relevant products.
- 2.3 In addition to identifying suppliers of Conflict Minerals to the Company and collecting supply-chain smelter information, TTM’s diligence measures included requesting suppliers to declare if any Conflict Minerals contained in their products originated in the Covered Countries.
- 2.4 The Company believes that complete information was received from all identified suppliers to its PCB products. However, many suppliers to TTM’s much smaller E-M Solutions and Anaren businesses reported that their supply chain information was incomplete. TTM continues to seek complete and accurate information from its Conflict Minerals supply chain sources from relevant suppliers.
- 2.5 The Company renewed its membership in the RMI to retain its timely access to global Conflict Minerals smelter information.
- 2.6 Smelters and refiners identified in the supply-chain survey were checked against RMI provided smelter information to confirm the status of their Conflict Minerals related sourcing activities.

Step 3 – Design and Implement a Strategy to Respond to Identified Risks

- 3.1 Changes to the status of the identified TTM PCB supply chain smelters were monitored regularly. All identified PCB sourcing concerns were addressed through outreach to the relevant members of TTM’s supply chain. There were cases during the reporting year where supply chain changes were related to Conflict Minerals sourcing. In such cases, TTM reached out to our direct supply chain and they reported modifying their sourcing in response.
- 3.2 Changes to the status of the identified TTM E-M Solutions supply chain smelters were only monitored for solder sourcing and there were no recorded cases where intervention occurred during the reporting year. All other raw materials used to manufacture customer parts are subject to strict controls from TTM’s customers, were not subject to TTM discretionary change, and were therefore not included in any ongoing monitoring or outreach program.

3.3 The status of the identified Anaren supply chain smelters was updated at the end of 2018. No cases of intervention occurred during the reporting year.

3.4 After reviewing supply chain and other identified publicly available information, the Company believes that some portion of the tantalum, tin, tungsten and gold in our supply chain may have been mined in Covered Countries. Grouped by metal, the following is our best estimate of the smelter, and smelter location, that may have contributed Conflict Minerals from Covered Countries to our supply chain during the 2018 calendar year:

| Metal | Smelter Name | | Country |
|--------------|---|---|--------------------------|
| Gold | Aida Chemical Industries Co., Ltd. | - | Japan |
| Gold | Allgemeine Gold-und Silberscheideanstalt A.G. | - | Germany |
| Gold | Argor-Heraeus S.A. | - | Switzerland |
| Gold | Emirates Gold DMCC | - | United Arab Emirates |
| Gold | L'Orfebvre S.A. | - | Andorra |
| Gold | Metalor Technologies (Suzhou) Ltd. | - | China |
| Gold | Metalurgica Met-Mex Penoles S.A. De C.V. | - | Mexico |
| Gold | Ohura Precious Metal Industry Co., Ltd. | - | Japan |
| Gold | PAMP S.A. | - | Switzerland |
| Gold | Rand Refinery (Pty) Ltd. | - | South Africa |
| Gold | Royal Canadian Mint | - | Canada |
| Gold | Shandong Zhaojin Gold & Silver Refinery Co., Ltd. | - | China |
| Gold | The Refinery of Shandong Gold Mining Co., Ltd. | - | China |
| Gold | Umicore Brasil Ltda. | - | Brazil |
| 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 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 |

| Metal | Smelter Name | | Country |
|--------------|---|---|------------------------------|
| Tantalum | Jiangxi Dinghai Tantalum & Niobium Co., Ltd. | - | China |
| Tantalum | Jiangxi Tuohong New Raw Material | - | China |
| Tantalum | JiuJiang JinXin Nonferrous Metals Co., Ltd. | - | China |
| Tantalum | Jiujiang Janny New Material 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 | Mitsui Mining and Smelting Co., Ltd. | - | Japan |
| Tantalum | Ningxia Orient Tantalum Industry Co., Ltd. | - | China |
| Tantalum | Power Resources Ltd. | - | North Macedonia, Republic of |
| Tantalum | Taki Chemical Co., Ltd. | - | Japan |
| Tantalum | Telex Metals | - | United States of America |
| Tantalum | Ulba Metallurgical Plant JSC | - | Kazakhstan |
| Tantalum | XinXing Haorong Electronic Material Co., Ltd. | - | China |
| Tantalum | Yanling Jincheng Tantalum & Niobium Co., Ltd. | - | China |
| Tantalum | Yichun Jin Yang Rare Metal Co., Ltd. | - | China |
| Tin | Alpha | - | United States of America |
| Tin | Gejiu Non-Ferrous Metal Processing Co., Ltd. | - | China |
| Tin | Malaysia Smelting Corporation (MSC) | - | Malaysia |
| Tin | Metallo Belgium N.V. | - | Belgium |
| Tin | Metallo Spain S.L.U. | - | Spain |
| Tin | O.M. Manufacturing (Thailand) Co., Ltd. | - | Thailand |
| Tin | PT Timah Tbk Mentok | - | Indonesia |
| Tin | Thaisarco | - | Thailand |
| Tin | Tin Technology & Refining | - | United States of America |
| Tin | Yunnan Tin Company Limited | - | China |
| Tungsten | A.L.M.T. TUNGSTEN Corp. | - | Japan |
| Tungsten | Asia Tungsten Products Vietnam Ltd. | - | Viet Nam |
| Tungsten | Global Tungsten & Powders Corp. | - | United States of America |
| Tungsten | H.C. Starck Smelting GmbH & Co. KG | - | Germany |
| Tungsten | Japan New Metals Co., Ltd. | - | Japan |
| Tungsten | Kennametal Fallon | - | United States of America |
| Tungsten | Niagara Refining LLC | - | United States of America |
| Tungsten | Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC | - | Viet Nam |
| Tungsten | Vietnam Youngsun Tungsten Industry Co., Ltd. | - | Viet Nam |
| Tungsten | Wolfram Bergbau und Hutten AG | - | Austria |
| Tungsten | Xiamen Tungsten (H.C.) Co., Ltd. | - | China |

Although we do not have complete source-smelter information from a number of our customer-specified suppliers, we obtained no affirmative information to indicate that any of the Conflict Minerals from the smelters listed above were financed by or benefited armed groups that operate in the Covered Countries of the DRC region.

- 3.5 As noted above, the Company's supply chain survey did not yield complete source-smelter information from a number of customer-specified suppliers of Conflict Minerals for TTM's E-M Solutions and Anaren products. The Company is continuing its efforts to work with such suppliers to ensure complete information is provided to the Company, including the country of origin of the relevant Conflict Minerals and the identity of the source smelters used to process the minerals. As additional information is obtained, the Company will undertake to determine whether such smelters have been listed by RMI as "Conformant to the Conflict Free Sourcing Protocol" or otherwise. In connection with such continuing diligence, the Company intends to continue education of and outreach to its suppliers as needed.

Step 4 – Carry Out Independent Third-Party Audit ("IPSA") of Smelter/Refiner's Due Diligence Practices

- 4.1 TTM supports the RMI conflict free smelter program as well as the development and implementation of due diligence practices and tools such as the CMRT. TTM analyzed the data received on smelters and refiners and compared such information against the list of facilities that were designated as Conformant by the RMI. However, due to the structure of the Company's supply chain as noted in the Policy and above, there are generally multiple tiers of suppliers between TTM and the smelters and refiners in the supply chain, and TTM does not purchase raw ore or unrefined Conflict Minerals or make any direct purchases in the Covered Countries. Therefore, as contemplated by the OECD Guidance for "downstream" companies, TTM has not performed its own audits of smelters or refiners. TTM will obtain an IPSA as and when required by Form SD.

Step 5 – Report Annually on Supply Chain Due Diligence

- 5.1 TTM submitted its Form SD with Exhibit 1.01 to SEC and posted the same to TTM's external website for each prior reporting period. The most recent prior reporting period ended December 31, 2017 and the relevant Form SD was submitted to SEC and posted on TTM's external web site on May 25, 2018.

(3) Products

The Company has identified the following products that may contain Conflict Minerals necessary to the functionality or production of products manufactured, or contracted to manufacture:

As noted in section (1) above, TTM products are the following:

1. Bare PCBs fabricated to customer specifications, including procurement of heat sinks and their attachments, where applicable;
2. E-M Solutions including printed circuit assemblies assembled to customer specified bills of materials using customer controlled components from customer approved vendor lists and any other products assembled to customer design and using customer specified suppliers; and
3. Products manufactured at Anaren facilities that were fabricated to customer design and material specifications and Anaren products manufactured in accordance with Anaren designs.

Appendix I contains a listing of smelters provided by TTM's PCB supply chain for the reporting period. With the exception of the smelters so indicated that were subsequently removed from TTM's PCB supply chain, all are currently recognized as RMI conformant or DRC Conflict Free.

Appendix II is a listing of smelters reported by the Company's E-M Solutions and Anaren supply chain. The supply chain data quality associated with these parts appears to be significantly less robust. Some smelters names provided may not be actual smelters and some names provided are recognized as not currently participating in any internationally recognized Conflict Free Smelter Program. TTM will continue to encourage customers to choose known Conflict Free sources as opportunities allow.

(4) Summary

TTM's reasonable country of origin inquiry is based on third party audit information and, to the extent that audited information is not available, it draws on additional information that TTM and others have collected. To the extent reasonably possible, TTM has documented the country of origin of identified smelters and refiners based on information from the RMI, surveys of smelters and refiners, and/or third party reviews of publicly available information. However, some country of origin information has not been audited by a third party because, among other reasons, applicable smelters and refiners have gone out of operation before completing a third party audit, smelters and refiners have not gone through a third party audit, or the third party audit does not yet include reporting of country of origin information. TTM believes that the applicable Conflict Minerals smelters for 100% of its PCB and 87% of its E-M Solutions and Anaren products have been identified. Based on the information provided by TTM's suppliers, smelters, and refiners, as well as from the RMI and other sources, TTM believes that the Conflict Minerals contained in its products were processed in the countries listed in the Appendices below and has indicated where the smelters have previously been audited by RMI and found to be sourcing conflict free, or are working with RMI to be audited in the future.

TTM's customers, who may also have a responsibility to conduct due diligence as to the source of Conflict Minerals used in their products, frequently specify the exact materials, components and suppliers we use, which limits our ability to exercise discretion in sourcing certain materials and components, and our ability to influence the supply chain practices of suppliers. Accordingly, the Company's success in making determinations about the potential presence of Conflict Minerals in its products depends upon various factors including, but not limited to, (i) the respective due diligence efforts of its suppliers and their supply chain; (ii) such suppliers' respective willingness, whether public or private entities, to disclose such information to the Company; and (iii) the ability of the involved entities to make their determinations in accordance with nationally or internationally recognized standards, including the Guidance provided by the OECD. The failure to obtain reliable information from any level of TTM's supply chain could have a material impact on the Company's future ability to report on the presence of Conflict Minerals with any degree of certainty. There can be no assurance that the Company's suppliers will continue to cooperate with diligence inquiries and requests for certifications or provide documentation or other evidence that TTM considers reliable or in a time frame sufficient to allow the Company to make its own assessment following appropriate further diligence measures, if any.

Appendix I

Conflict Minerals Sources to PCB Global Operations 2018

Appendix II

Conflict Minerals Sources to E-M Solutions and Anaren Global Operations 2018

Conflict Minerals Sources to PCB Global Operations 2018

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|-------|-------------|---|--------------------------|----------------|
| Gold | | Advanced Chemical Company | United States of America | Y |
| Gold | | Aida Chemical Industries Co., Ltd. | Japan | Y |
| Gold | | Allgemeine Gold-und Silberscheideanstalt A.G. | Germany | Y |
| Gold | | AngloGold Ashanti Corrego do Sitio Mineracao | Brazil | Y |
| Gold | | Argor-Heraeus S.A. | Switzerland | Y |
| Gold | | Asahi Pretec Corp. | Japan | Y |
| Gold | | Asahi Refining Canada Ltd. | Canada | Y |
| Gold | | Asahi Refining USA Inc. | United States of America | Y |
| Gold | | Aurubis AG | Germany | Y |
| Gold | | Boliden AB | Sweden | Y |
| Gold | | C. Hafner GmbH + Co. KG | Germany | Y |
| Gold | | CCR Refinery - Glencore Canada Corporation | Canada | Y |
| Gold | | Chimet S.p.A. | Italy | Y |
| Gold | | Dowa | Japan | Y |
| Gold | | Geib Refining Corporation | United States of America | Y |
| Gold | | Heimerle + Meule GmbH | Germany | Y |
| Gold | | Heraeus Metals Hong Kong Ltd. | China | Y |
| Gold | | Heraeus Precious Metals GmbH & Co. KG | Germany | Y |
| Gold | | Ishifuku Metal Industry Co., Ltd. | Japan | Y |
| Gold | | Istanbul Gold Refinery | Turkey | Y |
| Gold | | JX Nippon Mining & Metals Co., Ltd. | Japan | Y |
| Gold | | Kennecott Utah Copper LLC | United States of America | Y |
| Gold | | Kojima Chemicals Co., Ltd. | Japan | Y |
| Gold | | Matsuda Sangyo Co., Ltd. | Japan | Y |
| Gold | | Metalor Technologies (Hong Kong) Ltd. | China | Y |
| Gold | | Metalor Technologies (Singapore) Pte., Ltd. | Singapore | Y |
| Gold | | Metalor Technologies (Suzhou) Ltd. | China | Y |
| Gold | | Metalor Technologies S.A. | Switzerland | Y |
| Gold | | Metalor USA Refining Corporation | United States of America | Y |
| Gold | | Metalurgica Met-Mex Penoles S.A. De C.V. | Mexico | Y |
| Gold | | Mitsubishi Materials Corporation | Japan | Y |
| Gold | | Mitsui Mining and Smelting Co., Ltd. | Japan | Y |
| Gold | | Nihon Material Co., Ltd. | Japan | Y |
| Gold | | PAMP S.A. | Switzerland | Y |
| Gold | | Rand Refinery (Pty) Ltd. | South Africa | Y |
| Gold | | Republic Metals Corporation | United States of America | 1 |
| Gold | | Royal Canadian Mint | Canada | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|---|--------------------------|-----------------------|
| Gold | | Shandong Zhaojin Gold & Silver Refinery Co., Ltd. | China | Y |
| Gold | | Sumitomo Metal Mining Co., Ltd. | Japan | Y |
| Gold | | Tanaka Kikinzoku Kogyo K.K. | Japan | Y |
| Gold | | The Refinery of Shandong Gold Mining Co., Ltd. | China | Y |
| Gold | | Tokuriki Honten Co., Ltd. | Japan | Y |
| Gold | | Umicore Brasil Ltda. | Brazil | Y |
| Gold | | Umicore S.A. Business Unit Precious Metals Refining | Belgium | Y |
| Gold | | United Precious Metal Refining, Inc. | United States of America | Y |
| Gold | | Valcambi S.A. | Switzerland | Y |
| Gold | | Western Australian Mint (T/a The Perth Mint) | Australia | Y |
| Gold | | Zhongyuan Gold Smelter of Zhongjin Gold Corporation | China | Y |
| Gold | 48 | PCB Gold Source Smelters | | |
| Tin | | Chenzhou Yunxiang Mining and Metallurgy Co., Ltd. | China | Y |
| Tin | | Alpha | United States of America | Y |
| Tin | | PT Aries Kencana Sejahtera | Indonesia | 1 |
| Tin | | CV United Smelting | Indonesia | Y |
| Tin | | EM Vinto | Bolivia | Y |
| Tin | | Fenix Metals | Poland | Y |
| Tin | | Gejiu Non-Ferrous Metal Processing Co., Ltd. | China | Y |
| Tin | | China Tin Group Co., Ltd. | China | Y |
| Tin | | Malaysia Smelting Corporation (MSC) | Malaysia | Y |
| Tin | | Metallic Resources, Inc. | United States of America | Y |
| Tin | | Mineracao Taboca S.A. | Brazil | Y |
| Tin | | Minsur | Peru | Y |
| Tin | | Mitsubishi Materials Corporation | Japan | Y |
| Tin | | Jiangxi New Nanshan Technology Ltd. | China | Y |
| Tin | | Operaciones Metalurgical S.A. | Bolivia | Y |
| Tin | | PT Artha Cipta Langgeng | Indonesia | Y |
| Tin | | PT Babel Inti Perkasa | Indonesia | Y |
| Tin | | PT Bangka Tin Industry | Indonesia | Y |
| Tin | | PT Belitung Industri Sejahtera | Indonesia | Y |
| Tin | | PT Bukit Timah | Indonesia | Y |
| Tin | | PT DS Jaya Abadi | Indonesia | Y |
| Tin | | PT Eunindo Usaha Mandiri | Indonesia | 1 |
| Tin | | PT Mitra Stania Prima | Indonesia | Y |
| Tin | | PT Panca Mega Persada | Indonesia | Y |
| Tin | | PT Prima Timah Utama | Indonesia | Y |
| Tin | | PT Refined Bangka Tin | Indonesia | Y |
| Tin | | PT Sariwiguna Binasentosa | Indonesia | Y |
| Tin | | PT Stanindo Inti Perkasa | Indonesia | Y |
| Tin | | PT Timah (Persero) Tbk Kundur | Indonesia | Y |
| Tin | | PT Timah (Persero) Tbk Mentok | Indonesia | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|--|------------------------|-----------------------|
| Tin | | PT Tinindo Inter Nusa | Indonesia | Y |
| Tin | | PT Tommy Utama | Indonesia | Y |
| Tin | | Rui Da Hung | Taiwan | Y |
| Tin | | Thaisarco | Thailand | Y |
| Tin | | Gejiu Yunxin Nonferrous Electrolysis Co., Ltd. | China | Y |
| Tin | | White Solder Metalurgia e Mineracao Ltda. | Brazil | Y |
| Tin | | Yunnan Chengfeng Non-ferrous Metals Co., Ltd. | China | Y |
| Tin | | Yunnan Tin Company Limited | China | Y |
| Tin | | CV Venus Inti Perkasa | Indonesia | Y |
| Tin | | PT Inti Stania Prima | Indonesia | Y |
| Tin | | CV Ayi Jaya | Indonesia | ¹ |
| Tin | | CV Dua Sekawan | Indonesia | Y |
| Tin | | CV Tiga Sekawan | Indonesia | Y |
| Tin | | Metallo Belgium N.V. | Belgium | Y |
| Tin | | PT Bangka Prima Tin | Indonesia | Y |
| Tin | | PT Sukses Inti Makmur | Indonesia | Y |
| Tin | | PT Menara Cipta Mulia | Indonesia | Y |
| Tin | | Gejiu Jinye Mineral Company | China | ¹ |
| Tin | | PT Lautan Harmonis Sejahtera | Indonesia | Y |
| Tin | | Guangdong Hanhe Non-Ferrous Metal Co., Ltd. | China | Y |
| Tin | | PT Bangka Serumpun | Indonesia | ¹ |
| Tin | 51 | PCB Tin Source Smelters | | |
| | 99 | Total PCB Source Smelters | | |

¹ RMI Conformant prior to ceasing operations.

Conflict Minerals Sources to E-M Solutions and Anaren Global Operations 2018

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|-------|-------------|---|--------------------------|----------------|
| Gold | | 8853 S.p.A. | Italy | Y |
| Gold | | AGoSI | Germany | |
| Gold | | ASARCO LLC | United States | |
| Gold | | AU Traders and Refiners | South Africa | Y |
| Gold | | AURA-II | United States of America | |
| Gold | | Abington Reldan Metals, LLC | United States of America | |
| Gold | | Academy Precious Metals (China) Co. LTD | China | |
| Gold | | Advanced Chemical Company | United States of America | Y |
| Gold | | African Gold Refinery | Uganda | |
| Gold | | Aida Chemical Industries Co., Ltd. | Japan | Y |
| Gold | | Aktyubinsk Copper Company TOO | Kazakhstan | |
| Gold | | Aktyubinsk Copper Company TOO | Russian Federation | |
| Gold | | Al Etihad Gold Refinery DMCC | United Arab Emirates | Y |
| Gold | | Allgemeine Gold-und Silberscheideanstalt A.G. | Germany | Y |
| Gold | | Almalyk Mining and Metallurgical Complex (AMMC) | Uzbekistan | Y |
| Gold | | Alpha assembly | United States of America | |
| Gold | | AngloGold Ashanti Corrego do Sitio Mineracao | Brazil | Y |
| Gold | | Argor-Heraeus S.A. | Switzerland | Y |
| Gold | | Asahi Pretec Corp. | Japan | Y |
| Gold | | Asahi Refining Canada Ltd. | Canada | Y |
| Gold | | Asahi Refining USA Inc. | United States of America | Y |
| Gold | | Asaka Riken Co., Ltd. | Japan | Y |
| Gold | | Atasay Kuyumculuk Sanayi Ve Ticaret A.S. | Turkey | |
| Gold | | Audiua, Escardida | Chile | |
| Gold | | Aurubis AG | Germany | Y |
| Gold | | Australia and New Zealand Banking Group Limited (ANZ) | Australia | |
| Gold | | Bangalore Refinery | India | Y |
| Gold | | Bangalore Refinery Pvt Ltd | India | |
| Gold | | Bangko Sentral ng Pilipinas (Central Bank of the Philippines) | Philippines | Y |
| Gold | | Bauer Walser AG | Germany | |
| Gold | | Boliden AB | Sweden | Y |
| Gold | | C. Hafner GmbH + Co. KG | Germany | Y |
| Gold | | CCR Refinery - Glencore Canada Corporation | Canada | Y |
| Gold | | CHEONG HING REFINERY WORKS LTD | Hong Kong | |
| Gold | | CORE PMG | Germany | |
| Gold | | Caridad | Mexico | |
| Gold | | Cendres + Metaux S.A. | Switzerland | Y |

| <u>Metal</u> | <u>Metal Total</u> | <u>Smelter Name</u> | <u>Smelter Country</u> | <u>Validated CFS?</u> |
|--------------|--------------------|---|---------------------------|-----------------------|
| Gold | | Central Bank of the DPR of Korea | Korea, Republic of | |
| Gold | | Chengfeng Metals Co Pte Ltd | Singapore | |
| Gold | | Chimet S.p.A. | Italy | Y |
| Gold | | Chugai Mining | Japan | Active |
| Gold | | Codelco | Chile | |
| Gold | | Computex Taipei | Taiwan, Province of China | |
| Gold | | DODUCO Contacts and Refining GmbH | Germany | Y |
| Gold | | DS PRETECH Co., Ltd. | Korea, Republic of | Y |
| Gold | | DSC (Do Sung Corporation) | Korea, Republic of | Y |
| Gold | | Daejin Indus Co., Ltd. | Korea, Republic of | Y |
| Gold | | Daye Non-Ferrous Metals Mining Ltd. | China | |
| Gold | | Degussa Sonne / Mond Goldhandel GmbH | Germany | |
| Gold | | Dijllah Gold Refinery FZC | United Arab Emirates | |
| Gold | | Dowa | Japan | Y |
| Gold | | Eco-System Recycling Co., Ltd. | Japan | Y |
| Gold | | Eldorado Gold Corporation | Canada | |
| Gold | | Elemetal Refining, LLC | United States of America | |
| Gold | | Emirates Gold DMCC | United Arab Emirates | Y |
| Gold | | Engelhard London | United Kingdom | |
| Gold | | FAGGI ENRICO SPA | Italy | |
| Gold | | Faggi Enrico S.p.A. | Italy | |
| Gold | | Fidelity Printers and Refiners Ltd. | Zimbabwe | |
| Gold | | Fujairah Gold FZC | United Arab Emirates | |
| Gold | | GCC Gujrat Gold Centre Pvt. Ltd. | India | |
| Gold | | Geib Refining Corporation | United States of America | Y |
| Gold | | Gold Refinery of Zijin Mining Group Co., Ltd. | China | Y |
| Gold | | Great Wall Precious Metals Co., Ltd. of CBPM | China | |
| Gold | | Guangdong Jinding Gold Limited | China | |
| Gold | | Guoda Safina High-Tech Environmental Refinery Co., Ltd. | China | |
| Gold | | Hangzhou Fuchunjiang Smelting Co., Ltd. | China | |
| Gold | | Harima Smelter | Japan | |
| Gold | | Harmony Gold Mining Company Limited | South Africa | |
| Gold | | HeeSung Metal Ltd. | Korea, Republic of | Y |
| Gold | | Heimerle + Meule GmbH | Germany | Y |
| Gold | | Henan Yuguang Gold and Lead Co., Ltd | China | |
| Gold | | Heraeus Metals Hong Kong Ltd. | China | Y |
| Gold | | Heraeus Precious Metals GmbH & Co. KG | Germany | Y |
| Gold | | Hon Hai / Foxconn Technology Group | Taiwan | |
| Gold | | House of Currency of Brazil (Casa da Moeda do Brazil) | Brazil | |
| Gold | | Hunan Chenzhou Mining Co., Ltd. | China | |
| Gold | | Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd. | China | |
| Gold | | HwaSeong CJ CO., LTD. | Korea, Republic of | |

| <u>Metal</u> | <u>Metal Total</u> | <u>Smelter Name</u> | <u>Smelter Country</u> | <u>Validated CFS?</u> |
|--------------|--------------------|---|--------------------------|-----------------------|
| Gold | | Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd. | China | Y |
| Gold | | International Precious Metal Refiners | United Arab Emirates | |
| Gold | | Ishifuku Metal Industry Co., Ltd. | Japan | Y |
| Gold | | Istanbul Gold Refinery | Turkey | Y |
| Gold | | Italpreziosi | Italy | Y |
| Gold | | JSC Ekaterinburg Non-Ferrous Metal Processing Plant | Russian Federation | |
| Gold | | JSC Uralelectromed | Russian Federation | Y |
| Gold | | JX Nippon Mining & Metals Co., Ltd. | Japan | Y |
| Gold | | Japan Mint | Japan | Y |
| Gold | | Jiangxi Copper Co., Ltd. | China | Y |
| Gold | | Johnson Matthey Inc | United States of America | |
| Gold | | Johnson Matthey Ltd | Canada | |
| Gold | | K.A.Rasmussen as | Norway | |
| Gold | | KGHM Polska Miedz Spolka Akcyjna | Poland | Active |
| Gold | | Kaloti Precious Metals | United Arab Emirates | |
| Gold | | Kazakhmys Smelting LLC | Kazakhstan | |
| Gold | | Kazzinc | Kazakhstan | Y |
| Gold | | Kennecott Utah Copper LLC | United States of America | Y |
| Gold | | Kojima Chemicals Co., Ltd. | Japan | Y |
| Gold | | Korea Metal Co., Ltd. | Korea, Republic of | |
| Gold | | Korea Zinc Co., Ltd. | Korea, Republic of | Y |
| Gold | | Kyrgyzaltyn JSC | Kyrgyzstan | Y |
| Gold | | Kyshtym Copper-Electrolytic Plant ZAO | Russian Federation | |
| Gold | | L'Orfebre S.A. | Andorra | Y |
| Gold | | L'azurde Company For Jewelry | Saudi Arabia | |
| Gold | | LINXENS | France | |
| Gold | | LS-NIKKO Copper Inc. | Korea, Republic of | Y |
| Gold | | Lee Iken | Switzerland | |
| Gold | | Lingbao Gold Co., Ltd. | China | |
| Gold | | Lingbao Jinyuan Tonghui Refinery Co., Ltd. | China | |
| Gold | | London Bullion Market Association | Unknown | |
| Gold | | Luoyang Zijin Yinhui Gold Refinery Co., Ltd. | China | |
| Gold | | MMTC-PAMP India Pvt., Ltd. | India | Y |
| Gold | | Marsam Metals | Brazil | Y |
| Gold | | Materion | United States of America | Y |
| Gold | | Matsuda Sangyo Co., Ltd. | Japan | Y |
| Gold | | Metahub Industries Sdn. Bhd. | Malaysia | |
| Gold | | Metallo Chimique | Belgium | |
| Gold | | Metalor Switzerland | Switzerland | |
| Gold | | Metalor Technologies (Hong Kong) Ltd. | China | Y |
| Gold | | Metalor Technologies (Singapore) Pte., Ltd. | Singapore | Y |
| Gold | | Metalor Technologies (Suzhou) Ltd. | China | Y |
| Gold | | Metalor Technologies S.A. | Switzerland | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|---|--------------------------|-----------------------|
| Gold | | Metalor USA Refining Corporation | United States of America | Y |
| Gold | | Metalurgica Met-Mex Penoles S.A. De C.V. | Mexico | Y |
| Gold | | Minsur | Peru | |
| Gold | | Mitsubishi Materials Corporation | Japan | Y |
| Gold | | Mitsui Mining and Smelting Co., Ltd. | Japan | Y |
| Gold | | Modeltech Sdn Bhd | Malaysia | |
| Gold | | Morris and Watson | New Zealand | |
| Gold | | Morris and Watson Gold Coast | Australia | |
| Gold | | Moscow Special Alloys Processing Plant | Russian Federation | Y |
| Gold | | NH Recytech Company | Korea, Republic of | Active |
| Gold | | Nadir Metal Rafineri San. Ve Tic. A.S. | Turkey | Y |
| Gold | | Navoi Mining and Metallurgical Combinat | Uzbekistan | |
| Gold | | Nihon Material Co., Ltd. | Japan | Y |
| Gold | | Nihon Superior Co., Ltd. | Japan | |
| Gold | | Novosibirsk | Russian Federation | |
| Gold | | Nyrstar Metal | Australia | |
| Gold | | OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet) | Russian Federation | Y |
| Gold | | OJSC Kolyma Refinery | Russian Federation | |
| Gold | | OJSC Novosibirsk Refinery | Russian Federation | Y |
| Gold | | Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH | Austria | Y |
| Gold | | Ohura Precious Metal Industry Co., Ltd. | Japan | Y |
| Gold | | PAMP S.A. | Switzerland | Y |
| Gold | | PT Aneka Tambang (Persero) Tbk | Indonesia | Y |
| Gold | | PT Koba Tin | Indonesia | |
| Gold | | PX Precinox S.A. | Switzerland | Y |
| Gold | | Pease & Curren | United States of America | |
| Gold | | Penglai Penggang Gold Industry Co., Ltd. | China | |
| Gold | | Philippine Associated Smelting and Refining Corporation | Philippines | |
| Gold | | Planta Recuperadora de Metales SpA | Chile | Y |
| Gold | | Prioksky Plant of Non-Ferrous Metals | Russian Federation | Y |
| Gold | | QG Refining, LLC | United States of America | |
| Gold | | REMONDIS PMR B.V. | Netherlands | Y |
| Gold | | Rand Refinery (Pty) Ltd. | South Africa | Y |
| Gold | | Refinery of Seemine Gold Co., Ltd. | China | |
| Gold | | Republic Metals Corporation | United States of America | |
| Gold | | Royal Canadian Mint | Canada | Y |
| Gold | | SAAMP | France | Y |
| Gold | | SAFINA A.S. | Czech Republic | |
| Gold | | SAXONIA Edelmetalle GmbH | Germany | Y |
| Gold | | SEMPSA Joyeria Plateria S.A. | Spain | Y |
| Gold | | SOE Shyolkovsky Factory of Secondary Precious Metals | Russian Federation | Y |
| Gold | | Sabin Metal Corp. | United States of America | |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|--|---------------------------|-----------------------|
| Gold | | Safimet S.p.A | Italy | Y |
| Gold | | Sai Refinery | India | |
| Gold | | Samduck Precious Metals | Korea, Republic of | |
| Gold | | Samhwa non-ferrous Metal ind.co.ltd | Unknown | |
| Gold | | Samwon Metals Corp. | Korea, Republic of | |
| Gold | | Schone Edelmetaal B.V. | Netherlands | |
| Gold | | Shandong Humon Smelting Co., Ltd. | China | |
| Gold | | Shandong Tiancheng Biological Gold Industrial Co., Ltd. | China | |
| Gold | | Shandong Yanggu Xiangguang Co. Ltd. | China | |
| Gold | | Shandong Zhaojin Gold & Silver Refinery Co., Ltd. | China | Y |
| Gold | | Sichuan Tianze Precious Metals Co., Ltd. | China | Y |
| Gold | | Singway Technology Co., Ltd. | Taiwan, Province of China | Y |
| Gold | | So Accurate Group, Inc. | United States of America | |
| Gold | | Solar Applied Materials Technology Corp. | Taiwan, Province of China | Y |
| Gold | | State Research Institute Center for Physical Sciences and Technology | Lithuania | |
| Gold | | Sudan Gold Refinery | Sudan | |
| Gold | | Sumitomo Metal Mining Co., Ltd. | Japan | Y |
| Gold | | SungEel HiMetal Co., Ltd. | Korea, Republic of | Y |
| Gold | | T.C.A S.p.A | Italy | Y |
| Gold | | THE HUTTI GOLD MINES CO.LTD | India | |
| Gold | | TOO Tau-Ken-Altyn | Kazakhstan | |
| Gold | | Tanaka Kikinzoku Kogyo K.K. | Japan | Y |
| Gold | | Thaisarco | Thailand | |
| Gold | | The Refinery of Shandong Gold Mining Co., Ltd. | China | Y |
| Gold | | Tokuriki Honten Co., Ltd. | Japan | Y |
| Gold | | Tongling Nonferrous Metals Group Co., Ltd. | China | |
| Gold | | Tony Goetz NV | Belgium | |
| Gold | | Torecom | Korea, Republic of | Y |
| Gold | | UBS AG Bahnhofstr. | Switzerland | |
| Gold | | Umicore Brasil Ltda. | Brazil | Y |
| Gold | | Umicore Precious Metals Thailand | Thailand | Y |
| Gold | | Umicore S.A. Business Unit Precious Metals Refining | Belgium | Y |
| Gold | | Uniforce Metal Industrial Corp. | Hong Kong | |
| Gold | | United Precious Metal Refining, Inc. | United States of America | Y |
| Gold | | Universal Precious Metals Refining Zambia | Zambia | |
| Gold | | Valcambi S.A. | Switzerland | Y |
| Gold | | WIELAND Edelmetalle GmbH | Germany | Y |
| Gold | | Western Australian Mint (T/a The Perth Mint) | Australia | Y |
| Gold | | Yamakin Co., Ltd. | Japan | Y |
| Gold | | Yokohama Metal Co., Ltd. | Japan | Y |
| Gold | | Yunnan Copper Industry Co., Ltd. | China | |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|--|--------------------------|-----------------------|
| Gold | | Zhongkuang Gold Industry Co., Ltd | China | |
| Gold | | Zhongyuan Gold Smelter of Zhongjin Gold Corporation | China | Y |
| Gold | | lianqi plating Ltd | Taiwan | |
| Gold | | ruì sheng | Indonesia | |
| Gold | 209 | E-M Solutions and Anaren Gold Source Smelters | | |
| Tantalum | | A&M Minerals Limited | Unknown | |
| Tantalum | | AMG Advanced Metallurgical Group N.V. (formerly Metallurg Inc., aka GfE) | Brazil | |
| Tantalum | | Advanced Metallurgical Group N.V. | United States | |
| Tantalum | | Advanced Metallurgical Group N.V. (AMG) | United States of America | |
| Tantalum | | Advanced Metallurgical Group N.V. (AMG) | United States | |
| Tantalum | | Asaka Riken Co., Ltd. | Japan | Y |
| Tantalum | | Avon Specialty Metals | United Kingdom | |
| Tantalum | | B. AIZU, JAPAN (OCTOBER 13, 2010) | Japan | |
| Tantalum | | BOHLER Schmiedetechn | Austria | |
| Tantalum | | Changsha South Tantalum Niobium Co., Ltd. | China | Y |
| Tantalum | | China Shenzhen Morgan Sputtering Targets & Technology Co., Ltd. | China | |
| Tantalum | | D Block Metals, LLC | United States of America | Y |
| Tantalum | | Duoluoshan | China | |
| Tantalum | | E.S.R. Electronics | United States of America | |
| Tantalum | | Ethiopian Minerals Development Share Company | Ethiopia | |
| Tantalum | | Exotech Inc. | United States of America | Y |
| Tantalum | | F&X Electro-Materials Ltd. | China | Y |
| Tantalum | | FIR Metals & Resource Ltd. | China | Y |
| Tantalum | | Global Advanced Metals Aizu | Japan | Y |
| Tantalum | | Global Advanced Metals Boyertown | United States of America | Y |
| Tantalum | | Guangdong Rising Rare Metals-EO Materials Ltd. | China | Y |
| Tantalum | | Guangdong Zhiyuan New Material Co., Ltd. | China | Y |
| Tantalum | | H.C. Starck Co., Ltd. | Thailand | Y |
| Tantalum | | H.C. Starck GmbH | Germany | |
| Tantalum | | H.C. Starck Hermsdorf GmbH | Germany | Y |
| Tantalum | | H.C. Starck Inc. | United States of America | Y |
| Tantalum | | H.C. Starck Laufenburg | Germany | |
| Tantalum | | H.C. Starck Ltd. | Japan | Y |
| Tantalum | | H.C. Starck Smelting GmbH & Co. KG | Germany | Y |
| Tantalum | | H.C. Starck Surface Technology and Ceramic Powders GmbH | Germany | |
| Tantalum | | H.C. Starck Tantalum and Niobium GmbH | Germany | Y |
| Tantalum | | Hengyang King Xing Lifeng New Materials Co., Ltd. | China | Y |
| Tantalum | | Hi-Temp Specialty Metals, Inc. | United States of America | |
| Tantalum | | JX Nippon Mining & Metals Co., Ltd. | Japan | |
| Tantalum | | Jiangxi Dinghai Tantalum & Niobium Co., Ltd. | China | Y |
| Tantalum | | Jiangxi Tuohong New Raw Material | China | Y |
| Tantalum | | JiuJiang JinXin Nonferrous Metals Co., Ltd. | China | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|-----------------|--------------------|--|---------------------------------|-----------------------|
| Tantalum | | Jiujiang Janny New Material Co., Ltd. | China | Y |
| Tantalum | | Jiujiang Tanbre Co., Ltd. | China | Y |
| Tantalum | | Jiujiang Zhongao Tantalum & Niobium Co., Ltd. | China | Y |
| Tantalum | | KEMET Blue Metals | Mexico | Y |
| Tantalum | | KEMET Blue Powder | United States of America | Y |
| Tantalum | | King-Tan Tantalum Industry Ltd. | China | |
| Tantalum | | LSM Brasil S.A. | Brazil | Y |
| Tantalum | | Metallurgical Products India Pvt., Ltd. | India | Y |
| Tantalum | | Mineracao Taboca S.A. | Brazil | Y |
| Tantalum | | Mitsui Mining and Smelting Co., Ltd. | Japan | Y |
| Tantalum | | NPM Silmet AS | Estonia | Y |
| Tantalum | | NTET, Thailand | Thailand | |
| Tantalum | | Ningxia Non-ferrous Metal Smeltery | China | |
| Tantalum | | Ningxia Orient Tantalum Industry Co., Ltd. | China | Y |
| Tantalum | | Phoenix Metal Ltd. | Rwanda | |
| Tantalum | | Plansee | Austria | |
| Tantalum | | Plansee SE | Austria | |
| Tantalum | | Plansee SE Liezen | Austria | |
| Tantalum | | Plansee SE Reutte | Austria | |
| Tantalum | | Power Resources Ltd. | North Macedonia, Republic of | Y |
| Tantalum | | QuantumClean | United States of America | Y |
| Tantalum | | Resind Industria e Comercio Ltda. | Brazil | Y |
| Tantalum | | Rui Da Hung | Taiwan | |
| Tantalum | | SANDVIK HARD MAT. | France | |
| Tantalum | | Solikamsk Magnesium Works OAO | Russian Federation | Y |
| Tantalum | | Taki Chemical Co., Ltd. | Japan | Y |
| Tantalum | | Talison Minerals Pty Ltd | Australia | |
| Tantalum | | Tantalite Resources | South Africa | |
| Tantalum | | Telex Metals | United States of America | Y |
| Tantalum | | Tranzact, Inc. | United States of America | |
| Tantalum | | Ulba Metallurgical Plant JSC | Kazakhstan | Y |
| Tantalum | | Wolfram Company CJSC | Russian Federation | |
| Tantalum | | XinXing HaoRong Electronic Material Co., Ltd. | China | Y |
| Tantalum | | Yanling Jincheng Tantalum & Niobium Co., Ltd. | China | Y |
| Tantalum | | Yichun Jin Yang Rare Metal Co., Ltd. | China | |
| Tantalum | | Zhuzhou Cemented Carbide Group Co, Ltd | China | |
| Tantalum | 73 | E-M Solutions and Anaren Tantalum Source Smelters | | |
| Tin | | 5N PLUS UK ltd | United Kingdom | |
| Tin | | 5N Plus | Canada | |
| Tin | | ACT JAPAN | Japan | |

| <u>Metal</u> | <u>Metal Total</u> | <u>Smelter Name</u> | <u>Smelter Country</u> | <u>Validated CFS?</u> |
|--------------|--------------------|---|----------------------------------|-----------------------|
| Tin | | ACuPowder International, LLC | United States | |
| Tin | | ALLTECH METAL | France | |
| Tin | | ALMAG | Italy | |
| Tin | | Al-Rec LLC | United States | |
| Tin | | Allgemeine Gold- und Silberscheideanstalt AG | Germany | |
| Tin | | Alpha | United States of America | Y |
| Tin | | Amalgamated Metal Corporation PLC | Unknown | |
| Tin | | Amalgamet Inc | Peru | |
| Tin | | An Thai Minerals Co., Ltd. | Viet Nam | |
| Tin | | An Thai Minerals Company Limited | Unknown | |
| Tin | | An Vinh Joint Stock Mineral Processing Company | Viet Nam | |
| Tin | | An Xin Xuan Xin Yue You Se Jin Shu Co. Ltd. | China | |
| Tin | | B T Solders Pvt Ltd | India | |
| Tin | | BML | Indonesia | |
| Tin | | Baoshida Swissmetall | Switzerland | |
| Tin | | Best Metais e Soldas SA | Brazil | |
| Tin | | Bonoka.Beliting INDONESIA | Indonesia | |
| Tin | | CHIA FAR | Taiwan | |
| Tin | | CIMSA, S.A. | Spain | |
| Tin | | CINTAS METALICAS S.A | Spain | |
| Tin | | CNMC (Guangxi) PGMA Co., Ltd. | China | |
| Tin | | CSC Pure Technologies | Russian Federation | |
| Tin | | CV Ayi Jaya | Indonesia | Y |
| Tin | | CV Dua Sekawan | Indonesia | Y |
| Tin | | CV Duta Putra Bangka | Indonesia | |
| Tin | | CV Gita Pesona | Indonesia | Y |
| Tin | | CV Makmur Jaya | Indonesia | |
| Tin | | CV Prima Timah Utama | Indonesia | |
| Tin | | CV United Smelting | Indonesia | Y |
| Tin | | CV Venus Inti Perkasa | Indonesia | Y |
| Tin | | Chenzhou Yunxiang Mining and Metallurgy Co., Ltd. | China | Y |
| Tin | | Chernan Metal Industrial Corp. | Taiwan | |
| Tin | | Chifeng Dajingzi Tin Industry Co., Ltd. | China | Y |
| Tin | | China Tin Group Co., Ltd. | China | Y |
| Tin | | Cooperativa Metalurgica de Rondonia Ltda. | Brazil | |
| Tin | | DUKSAN HI-METAL | Korea, Republic of | |
| Tin | | Da Nang Processing Import and Export Joint Stock | Viet Nam | |
| Tin | | Dongguan CiEXPO Environmental Engineering Co., Ltd. | China | Active |
| Tin | | Dowa | Japan | Y |
| Tin | | E-tech Philippines | Philippines | |
| Tin | | EM Vinto | Bolivia (Plurinational State of) | Y |
| Tin | | Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company | Viet Nam | |

| <u>Metal</u> | <u>Metal Total</u> | <u>Smelter Name</u> | <u>Smelter Country</u> | <u>Validated CFS?</u> |
|--------------|--------------------|--|--|-----------------------|
| Tin | | Electroloy Metal Co. Ltd | Singapore | |
| Tin | | Empresa Metalúrgica Vinto (Government, 100%) | Bolivia (Plurinational State of) | |
| Tin | | Estanho de Rondonia S.A. | Brazil | |
| Tin | | Exim Americana | Mexico | |
| Tin | | Eximetal S.A. | Argentina | |
| Tin | | Feinhütte Halsbrücke GmbH | Germany | |
| Tin | | Fenix Metals | Poland | Y |
| Tin | | Fuji Metal Mining | Japan | |
| Tin | | Fuji Metal Mining Corp. | Thailand | |
| Tin | | Gejiu Fengming Metallurgy Chemical Plant | China | Y |
| Tin | | Gejiu Jinye Mineral Company | China | Y |
| Tin | | Gejiu Kai Meng Industry and Trade LLC | China | Y |
| Tin | | Gejiu Non-Ferrous Metal Processing Co., Ltd. | China | Y |
| Tin | | Gejiu Yunxin Nonferrous Electrolysis Co., Ltd. | China | Y |
| Tin | | Gejiu Zili Mining And Metallurgy Co., Ltd. | China | Y |
| Tin | | Global Advanced Metals Pty Ltd | Australia | |
| Tin | | Grik Perak Malaysia | Malaysia | |
| Tin | | Guangdong Hanhe Non-Ferrous Metal Co., Ltd. | China | Y |
| Tin | | Guangxi Non-ferrous Metals Group Co.,Ltd | China | |
| Tin | | Guanyang Guida Nonferrous Metal Smelting Plant | China | Y |
| Tin | | H. Kramer & Co. | United States of America | |
| Tin | | Hai Yuxin Xi Zhuhai Co., Ltd. | China | |
| Tin | | Hana-High Metal | Malaysia | |
| Tin | | Hayes Metals | New Zealand | |
| Tin | | Heraeus Metals Hong Kong Ltd. | Hong Kong | |
| Tin | | Hezhou Jinwei Tin Co., Ltd | China | |
| Tin | | Hongqiao Metals (Kunshan) Co., Ltd. | China | |
| Tin | | HuiChang Hill Tin Industry Co., Ltd. | China | |
| Tin | | Huichang Jinshunda Tin Co., Ltd. | China | Y |
| Tin | | IRM | Canada | |
| Tin | | Ing.Josef Korinek | Czech Republic | |
| Tin | | Jean GOLDSCHMIDT INTERNATIONAL S.A. | Belgium | |
| Tin | | Jiangxi Ketai Advanced Material Co., Ltd. | China | |
| Tin | | Jiangxi New Nanshan Technology Ltd. | China | Y |
| Tin | | Kovohute Pribram Nastupnicka, A.S. | Czech Republic | |
| Tin | | Linq Xianggui Smelter Co., Ltd. | China | |
| Tin | | Liuzhou China Tin | China | |
| Tin | | M&R Claushuis BV | Netherlands | |
| Tin | | MCP Mining & Chemical Products Ltd. UK | United Kingdom of Great Britain And Northern Ireland | |
| Tin | | MINERA MEXICO | Mexico | |
| Tin | | Magnu's Minerais Metais e Ligas Ltda. | Brazil | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|--|----------------------------------|-----------------------|
| Tin | | Malaysia Smelting Corporation (MSC) | Malaysia | Y |
| Tin | | Melt Metais e Ligas S.A. | Brazil | Y |
| Tin | | Metahub Industries Sdn. Bhd. | Malaysia | |
| Tin | | Metallic Resources, Inc. | United States of America | Y |
| Tin | | Metallo Belgium N.V. | Belgium | Y |
| Tin | | Metallo Spain S.L.U. | Spain | Y |
| Tin | | Metallum Group Holding NV | Belgium | |
| Tin | | Mineracao Taboca S.A. | Brazil | Y |
| Tin | | Minsur | Peru | Y |
| Tin | | Misue Tin Smelter and Refinery | Peru | |
| Tin | | Mitsubishi Materials Corporation | Japan | Y |
| Tin | | Modeltech Sdn Bhd | Malaysia | Y |
| Tin | | Nghe Tinh Non-Ferrous Metals Joint Stock Company | Viet Nam | |
| Tin | | Nortena de Metales, SA | Spain | |
| Tin | | Novosibirsk Integrated Tin Works | Russian Federation | |
| Tin | | Novosibirsk Processing Plant Ltd. | Russian Federation | |
| Tin | | O.M. Manufacturing (Thailand) Co., Ltd. | Thailand | Y |
| Tin | | O.M. Manufacturing Philippines, Inc. | Philippines | Y |
| Tin | | Operaciones Metalurgicas S.A. | Bolivia (Plurinational State of) | Y |
| Tin | | Outotec | Australia | |
| Tin | | PIREKS | Turkey | |
| Tin | | PT ATD Makmur Mandiri Jaya | Indonesia | Y |
| Tin | | PT Alam Lestari Kencana | Indonesia | |
| Tin | | PT Aries Kencana Sejahtera | Indonesia | Y |
| Tin | | PT Artha Cipta Langgeng | Indonesia | Y |
| Tin | | PT Babel Inti Perkasa | Indonesia | Y |
| Tin | | PT Babel Surya Alam Lestari | Indonesia | Y |
| Tin | | PT Bangka Kudai Tin | Indonesia | |
| Tin | | PT Bangka Prima Tin | Indonesia | Y |
| Tin | | PT Bangka Putra Karya | Indonesia | |
| Tin | | PT Bangka Serumpun | Indonesia | Y |
| Tin | | PT Bangka Timah Utama Sejahtera | Indonesia | |
| Tin | | PT Bangka Tin Industry | Indonesia | Y |
| Tin | | PT Belitung Industri Sejahtera | Indonesia | Y |
| Tin | | PT BilliTin Makmur Lestari | Indonesia | |
| Tin | | PT Bukit Timah | Indonesia | Y |
| Tin | | PT Cipta Persada Mulia | Indonesia | |
| Tin | | PT DS Jaya Abadi | Indonesia | Y |
| Tin | | PT Eunindo Usaha Mandiri | Indonesia | |
| Tin | | PT Fang Di MulTindo | Indonesia | |
| Tin | | PT HP Metals Indonesia | Indonesia | |
| Tin | | PT Inti Stania Prima | Indonesia | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|---|---------------------------|-----------------------|
| Tin | | PT Justindo | Indonesia | |
| Tin | | PT Karimun Mining | Indonesia | Y |
| Tin | | PT Kijang Jaya Mandiri | Indonesia | Y |
| Tin | | PT Koba Tin | Indonesia | |
| Tin | | PT Lautan Harmonis Sejahtera | Indonesia | Y |
| Tin | | PT Menara Cipta Mulia | Indonesia | Y |
| Tin | | PT Mitra Stania Prima | Indonesia | Y |
| Tin | | PT O.M. Indonesia | Indonesia | |
| Tin | | PT Panca Mega Persada | Indonesia | Y |
| Tin | | PT Premium Tin Indonesia | Indonesia | Y |
| Tin | | PT Prima Timah Utama | Indonesia | Y |
| Tin | | PT Rajawali Rimba Perkasa | Indonesia | Active |
| Tin | | PT Rajehan Ariq | Indonesia | Y |
| Tin | | PT Refined Bangka Tin | Indonesia | Y |
| Tin | | PT Sariwiguna Binasentosa | Indonesia | Y |
| Tin | | PT Seirama Tin Investment | Indonesia | |
| Tin | | PT Stanindo Inti Perkasa | Indonesia | Y |
| Tin | | PT Sukses Inti Makmur | Indonesia | Y |
| Tin | | PT Sumber Jaya Indah | Indonesia | Y |
| Tin | | PT Timah Nusantara | Indonesia | |
| Tin | | PT Timah Tbk Kunder | Indonesia | Y |
| Tin | | PT Timah Tbk Mentok | Indonesia | Y |
| Tin | | PT Tinindo Inter Nusa | Indonesia | Y |
| Tin | | PT Tirus Putra Mandiri | Indonesia | Y |
| Tin | | PT Tommy Utama | Indonesia | Y |
| Tin | | PT Wahana Perkit Jaya | Indonesia | |
| Tin | | PT Yinchendo Mining Industry | Indonesia | |
| Tin | | Phoenix Metal Ltd. | Rwanda | |
| Tin | | Pohang Iron and Steel Co. Ltd. | Korea, Republic of | |
| Tin | | Pongpipat Company Limited | Myanmar | |
| Tin | | Qualitek delta philippines inc. | Philippines | |
| Tin | | Recial - Reciclagem de Alumínios, SA | Portugal | |
| Tin | | Resind Industria e Comercio Ltda. | Brazil | Y |
| Tin | | Rui Da Hung | Taiwan, Province of China | Y |
| Tin | | SARBAK | Turkey | |
| Tin | | SENJU METAL INDUSTRY CO.,LTD. | Bolivia | |
| Tin | | Senju Metal Industry Co., Ltd. | Malaysia | |
| Tin | | Soft Metais Ltda. | Brazil | Y |
| Tin | | Super Ligas | Brazil | |
| Tin | | Thai Nguyen Mining and Metallurgy Co., Ltd. | Viet Nam | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|--------------|--------------------|--|--------------------------|-----------------------|
| Tin | | Thaisarco | Thailand | Y |
| Tin | | Tin Technology & Refining | United States of America | Y |
| Tin | | Tuyen Quang Non-Ferrous Metals Joint Stock Company | Viet Nam | |
| Tin | | Univertical International | American Samoa | |
| Tin | | Univertical International (Suzhou) Co., Ltd | China | |
| Tin | | Untracore Co.,Ltd. | Singapore | |
| Tin | | VQB Mineral and Trading Group JSC | Viet Nam | |
| Tin | | White Solder Metalurgia e Mineracao Ltda. | Brazil | Y |
| Tin | | Xianghualing Tin Industry Co., Ltd. | China | |
| Tin | | Xinmao Xiye (Tin Company) | China | |
| Tin | | Yunnan Chengfeng Non-ferrous Metals Co., Ltd. | China | Y |
| Tin | | Yunnan Gejiu Jinye Minerals | China | |
| Tin | | Yunnan Tin Company Limited | China | Y |
| Tin | | Zhongshan Jinye Smelting Co., Ltd | China | |
| Tin | | Zhongshan Jinye Smelting Co.,Ltd | Unknown | |
| Tin | | univertical international (suzhou) co. ltd | China | |
| Tin | 184 | E-M Solutions and Anaren Tin Source Smelters | | |
| Tungsten | | A.L.M.T. Corp. | China | |
| Tungsten | | A.L.M.T. Corp. | Taiwan | |
| Tungsten | | A.L.M.T. Corp. | Japan | Y |
| Tungsten | | A.L.M.T. Corp. | United States | |
| Tungsten | | ACL Metais Eireli | Brazil | Y |
| Tungsten | | ATI Metalworking Products | United States of America | |
| Tungsten | | Aida Chemical Industries Co., Ltd. | Japan | |
| Tungsten | | Air Liquide Far Eastern | Korea, Republic of | |
| Tungsten | | Alloys Imphy | France | |
| Tungsten | | Asia Tungsten Products Vietnam Ltd. | Viet Nam | Y |
| Tungsten | | Chenzhou Diamond Tungsten Products Co., Ltd. | China | Y |
| Tungsten | | Chongyi Zhangyuan Tungsten Co., Ltd. | China | Y |
| Tungsten | | Chunbao Carbide Science & Technology Co.,Ltd | Taiwan | |
| Tungsten | | DAIDO STEEL | Japan | |
| Tungsten | | DaeguTec Ltd. | Unknown | |
| Tungsten | | Dayu Jincheng Tungsten Industry Co., Ltd. | China | |
| Tungsten | | Dayu Weiliang Tungsten Co., Ltd. | China | |
| Tungsten | | Fujian Jinxin Tungsten Co., Ltd. | China | Y |
| Tungsten | | Ganxian Shirui New Material Co., Ltd. | China | |
| Tungsten | | Ganzhou BESEEM Ferrotungsten Co. Ltd. | China | |
| Tungsten | | Ganzhou Haichuang Tungsten Co., Ltd. | China | Y |
| Tungsten | | Ganzhou Haichuang Tungsten Industry Co., Ltd. [Ganzhou Tejing Tungsten & Molybdenum Co., Ltd.(GZTJ)] | China | |
| Tungsten | | Ganzhou Huaxing Tungsten Products Co., Ltd. | China | Y |
| Tungsten | | Ganzhou Jiangwu Ferrotungsten Co., Ltd. | China | Y |
| Tungsten | | Ganzhou Non-ferrous Metals Smelting Co., Ltd. | China | |

| <u>Metal</u> | <u>Metal Total</u> | <u>Smelter Name</u> | <u>Smelter Country</u> | <u>Validated CFS?</u> |
|--------------|--------------------|---|--------------------------|-----------------------|
| Tungsten | | Ganzhou Seadragon W & Mo Co., Ltd. | China | Y |
| Tungsten | | Ganzhou Yatai Tungsten Co., Ltd. | China | |
| Tungsten | | Global Tungsten & Powders Corp. | United States of America | Y |
| Tungsten | | Guangdong Xianglu Tungsten Co., Ltd. | China | Y |
| Tungsten | | H.C. Starck Group | Germany | |
| Tungsten | | H.C. Starck Smelting GmbH & Co. KG | Germany | Y |
| Tungsten | | H.C. Starck Tungsten GmbH | Germany | Y |
| Tungsten | | HC Starck GmbH | Russian Federation | |
| Tungsten | | Heimerle + Meule Group | Spain | |
| Tungsten | | Heraeus Deutschland Heraeus GmbH & Co. KG | Germany | |
| Tungsten | | Hunan Chenzhou Mining Co., Ltd. | China | Y |
| Tungsten | | Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji | China | Y |
| Tungsten | | Hunan Chuangda Vanadium Tungsten Co., Ltd. Yanglin | China | |
| Tungsten | | Hunan Chunchang Nonferrous Metals Co., Ltd. | China | Y |
| Tungsten | | Hunan Litian Tungsten Industry Co., Ltd. | China | Active |
| Tungsten | | Hydrometallurg, JSC | Russian Federation | Y |
| Tungsten | | Japan New Metals Co., Ltd. | Japan | Y |
| Tungsten | | Jiangwu H.C. Starck Tungsten Products Co., Ltd. | China | Y |
| Tungsten | | Jiangxi Dayu Longxintai Tungsten Co., Ltd. | China | |
| Tungsten | | Jiangxi Gan Bei Tungsten Co., Ltd. | China | Y |
| Tungsten | | Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd. | China | |
| Tungsten | | Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd. | China | Y |
| Tungsten | | Jiangxi Xincheng Tungsten Industry Co., Ltd. | China | Y |
| Tungsten | | Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd. | China | |
| Tungsten | | Jiangxi Yaosheng Tungsten Co., Ltd. | China | Y |
| Tungsten | | Kennametal Fallon | United States of America | Y |
| Tungsten | | Kennametal Huntsville | United States of America | Y |
| Tungsten | | Malipo Haiyu Tungsten Co., Ltd. | China | Y |
| Tungsten | | Masan Tungsten Chemical LLC (MTC) | Viet Nam | Y |
| Tungsten | | Metallo-Chimique N.V. | Belgium | |
| Tungsten | | Minsur | Peru | |
| Tungsten | | Moliren Ltd. | Russian Federation | Y |
| Tungsten | | Niagara Refining LLC | United States of America | Y |
| Tungsten | | North American Tungsten | Canada | |
| Tungsten | | Philippine Chuangxin Industrial Co., Inc. | Philippines | Y |
| Tungsten | | Plansee Group | Austria | |
| Tungsten | | Pobedit, JSC | Russian Federation | |
| Tungsten | | Sandvik Material Technology | Sweden | |
| Tungsten | | Sanher Tungsten Vietnam Co., Ltd. | Viet Nam | |
| Tungsten | | South-East Nonferrous Metal Company Limited of Hengyang City | China | Y |
| Tungsten | | Tejing (Vietnam) Tungsten Co., Ltd. | Viet Nam | Y |
| Tungsten | | Unecha Refractory metals plant | Russian Federation | Y |

| Metal | Metal Total | Smelter Name | Smelter Country | Validated CFS? |
|-----------------|--------------------|---|------------------------|-----------------------|
| Tungsten | | Vietnam Youngsun Tungsten Industry Co., Ltd. | Viet Nam | |
| Tungsten | | WOLFRAM Company CJSC | Russian Federation | |
| Tungsten | | White Solder Metalurgia e Mineracao Ltda. | Brazil | |
| Tungsten | | Wolfram Bergbau und Hutten AG | Austria | Y |
| Tungsten | | Wolfram Company CJSC | Russian Federation | |
| Tungsten | | Woltech Korea Co., Ltd. | Korea, Republic of | Y |
| Tungsten | | Xiamen Tungsten (H.C.) Co., Ltd. | China | Y |
| Tungsten | | Xiamen Tungsten Co., Ltd. | China | Y |
| Tungsten | | Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd. | China | Y |
| Tungsten | | Xinhai Rendan Shaoguan Tungsten Co., Ltd. | China | Y |
| Tungsten | 77 | E-M Solutions and Anaren Tungsten Source Smelters | | |
| | 543 | Total E-M Solutions and Anaren Source Smelters | | |