



## **AMSC CONFLICT MINERALS REPORT**

### **For the year ended December 31, 2017**

#### ***INTRODUCTION AND SUMMARY***

This AMSC Conflict Minerals Report (this “Report”) has been prepared in accordance with Section 13(p) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”) and Rule 13p-1 (the “Rule”) promulgated thereunder, for the reporting period from January 1, 2017 to December 31, 2017.

This Report relates to the process undertaken for AMSC products that were manufactured during calendar year 2017 and that contain or are believed to contain conflict minerals that are necessary to the functionality or production of our products. The term “conflict minerals” is defined in Section 13(p) of the Exchange Act as (A) cassiterite, columbite-tantalite (coltan), gold, wolframite, and their derivatives, as limited by the Rule, tin, tantalum, tungsten, and gold (the “3TGs”); or (B) any other mineral or its derivatives determined by the Secretary of State to be financing conflict in the Democratic Republic of Congo (“DRC”) or any adjoining country that shares an internationally recognized border with the DRC. This Report includes a discussion of our conflict minerals program, reasonable country of origin inquiry (“RCOI”), due diligence procedures performed, and the disclosures required by the Securities and Exchange Commission (the “SEC”). AMSC is required to file this Report with the SEC because based on our RCOI and further due diligence, we have reason to believe that the 3TGs used in our products may originate in the DRC or certain countries that share an internationally-recognized border with the DRC and that they may not be from recycled or scrap sources. The adjoining countries are: the Republic of the Congo, Angola, Burundi, Central African Republic, Rwanda, Tanzania, Uganda, and Zambia (together with the DRC, the “Covered Countries”).

Based on its assessment of survey responses received from our suppliers, AMSC determined that the majority of the materials used in the production of its products do not contain 3TGs sourced from the Covered Countries. However, from our RCOI we could not determine that the remainder of the 3TGs used in the production of our products did not originate from the Covered Countries.

#### ***COMPANY OVERVIEW***

American Superconductor Corporation (together with its subsidiaries, “AMSC ®” or the “Company”) was founded on April 9, 1987. We are a leading provider of megawatt-scale solutions that lower the cost of wind power and enhance the performance of the power grid. In the wind power market, we enable manufacturers to field highly competitive wind turbines through our advanced power electronics products, engineering, and support services. In the power grid market, we enable electric utilities, industrial facilities, and renewable energy project developers to connect, transmit and distribute power through our transmission planning services and power electronics, and superconductor-based products. Our wind and power grid products and services provide exceptional reliability, security, efficiency, and affordability to our customers.

#### ***PRODUCT DESCRIPTIONS***

We segment our operations into two market-facing business units: Wind and Grid.

- *Wind.* Through our Windtec Solutions™, our Wind business segment enables manufacturers to field wind turbines with exceptional power output, reliability, and affordability. We supply advanced power electronics and control systems, license our highly engineered wind turbine designs, and provide extensive customer support services to wind turbine manufacturers. Our design portfolio includes a broad range of drive trains and power ratings of 2 megawatts (“MW”) and higher. We provide a broad range of power electronics and software-based control systems that are highly integrated and designed for optimized performance, efficiency, and grid compatibility.
- *Grid.* Through our Gridtec Solutions™, our Grid business segment enables electric utilities and renewable energy project developers to connect, transmit and distribute power with exceptional efficiency, reliability, security and affordability. We provide planning services that allow us to identify power grid congestion, poor power quality, and other risks, which help us, determine how our solutions can improve network performance. These services often lead to sales of our grid interconnection solutions for wind farms and solar power plants, power quality systems and transmission and distribution cable systems. We also sell ship protection products to the U.S. Navy.

We have determined that virtually all of our products may contain 3TGs.

The Company has disclosed the information above, along with a copy of this Report, publicly on its website, <http://ir.amsc.com/governance.cfm>.

### ***RCOI***

The Conflict Mineral Rule requires us to conduct in good faith an RCOI reasonably designed to determine whether any of our 3TGs originated in the Covered Countries, are from recycled or scrap sources. Phase one of our conflict minerals compliance program included a comprehensive screening of our product families. This screening, which mainly consisted of a detailed engineering review of our bill of materials, determined that virtually all of our products may contain 3TGs.

Phase two of our conflict minerals compliance program included AMSC engineers’ conducting a detailed bill of material review to ascertain if any of our components contain, or are believed to contain, 3TGs. All parts identified through the screening and detailed bill of material review, including purchased components, are screened and reviewed as described below.

To determine whether any 3TGs in our products originated in the Covered Countries, we retained a third-party service provider, Assent Compliance (“Assent”), to assist us in collecting and reviewing data from our supply chain. Suppliers of purchased parts or components that are believed to contain 3TG via the engineering reviews described above and survey are required by the supply chain to disclose the source of origin using the RBA-GeSI Conflict Minerals Reporting Template (“CMRT”) detailing the unique smelter ID number of every source of material procured.

Disclosure requests are first requested of suppliers based on delivery quantities from the supplier in addition to the period deliveries were received. Current products manufactured in the last year and related deliveries are prioritized based on quantities used in production and the likelihood suppliers are available to respond. Responses received from suppliers in North America continue to be generally more complete and often indicate that they are more conflict free than those from other parts of the world.

Due to the unpredictability of response rates and the completeness of the responses, the Company continues to update its due diligence process to assure the highest response rate and most valid answers reasonably possible. Our efforts to achieve complete transparency in our supply chain are made more difficult due to the fact that a significant portion of our supply chain is not required to file reports with the SEC under Sections 13(a) or 14(b) of the Exchange Act, and is therefore not concerned by reporting obligations pursuant to Rule 13p-1 thereunder.

We contacted our suppliers via the Assent Compliance Manager, a SaaS platform provided by Assent that enables its users to complete and track supplier communications and allows suppliers to upload completed CMRTs forms directly to the platform for assessment, reporting and management. Assent requested that suppliers complete the Conflict Minerals Reporting Template “CMRT” forms and included training and education on the completion of the CMRT form in its electronic communications to suppliers. Assent monitored and tracked all of these communications in Assent’s system for future reporting and transparency.

Assent periodically informed the Company of the response rate of suppliers during the inquiry process. AMSC directly contacted suppliers that were unresponsive to Assent’s communications during the RCOI and requested such suppliers to complete the CMRT and submit such form to Assent. Suppliers requesting additional information regarding the CMRT were encouraged to review informational materials prepared by Assent and to contact Assent with further questions.

Our program continues to include automated data validation on all submitted CMRTs. The goal of data validation is to increase the accuracy of submissions and identify any contradictory answers in the CMRT. This data validation is based on:

- Questions 1 and 2 are minimum requirements for the CMRT
  - If suppliers state (via Q1 and Q2) that their products do not contain 3TGs necessary to the function or production of said products, then no further information is required and no further data validation is completed.
- Question 3 – Do any of your 3TGs originate from the covered countries?
  - Any supplier that has any 3TGs from the covered countries, even 1 positive response from their supply chain must answer yes.
- Question 4– is 100% of the 3TG in question from a recycled source?
- Question 5 – Have you received info from all relevant 3TG Suppliers?
  - If you are not at 100%, then you can’t make definitive statements for Questions 3, 4 and 6
- Question 6 – Have you identified all your Smelters and refiners?
  - If the answer here is yes, then question 5 must be yes. This also impacts question 3.

All submitted forms are accepted and classified as valid or invalid so that data is retained. Suppliers are contacted in regard to invalid forms and are encouraged to submit a valid form.

## DESIGN OF DUE DILIGENCE

AMSC undertook due diligence on the source and chain of custody of the 3TG has been designed to conform to the Organization of Economic Cooperation and Development “OECD” Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High Risk Areas

(Second Edition) (including the supplements on Gold and on Tin, Tungsten and Tantalum) (“OECD Guidance”) being adopted, and described below.

We developed our due diligence process to address each of the five steps as outlined by the OECD Guidance, namely:

1. Establishing strong company management systems regarding conflict minerals;
2. Identifying and assessing risks in our supply chain;
3. Designing and implementing a strategy to respond to identified risks in our supply chain;
4. Utilizing independent third-party audits of supply chain diligence; and
5. Publicly reporting on our supply chain due diligence.

## DUE DILIGENCE PERFORMED

### *Step 1: Company Management System*

#### Internal Team

Senior management is involved with the overall execution of our program. The team consists mainly of members of the Procurement and Sourcing team. This team is responsible for providing all supplier data to Assent and coordination of issues and other tasks that may arise. The team is also responsible for following up with non-responsive suppliers. The team also reviews along with senior management and the Director of Internal Audit, periodic progress and status reports provided by Assent.

#### Control Systems

The Company expects all of its suppliers to have policies and procedures in place to ensure that any 3TGs used in the production of the products sold to AMSC are DRC conflict-free. This means that the products must not contain 3TGs that directly or indirectly finance or benefit armed groups in the Covered Countries. These expectations are communicated directly to suppliers.

Other controls include, but are not limited to, our Code of Business Conduct and Ethics that outlines certain expected behaviors for all employees. In addition, we rely on our direct suppliers to provide information on the origin of the 3TG contained in components and materials supplied to us – including sources of 3TG that are supplied to them from lower tier suppliers.

#### Supplier Engagement

Suppliers requiring outreach for reasons such as unresponsiveness response or other matters are called, emailed and written to. Every effort possible is made to contact and manage issues with suppliers. Suppliers not responding are dealt with as a risk to the company and are subject to our termination of relationship with the supplier.

We continue to put a strong emphasis on supplier education and training. To accomplish this, we utilized Assent’s learning management system, Assent University, to enroll all our in-scope suppliers in Conflict Minerals training courses. All training is tracked and evaluated based on completion.

#### Grievance Mechanism

AMSC maintains a Global Hotline and an intranet based Hotline reporting portal for all employees. The Hotline is available for use with respect to conflict minerals. An independent company (the, “Contractor”) receives calls and electronically submitted tips and issues. The Contractor will notify the President, CFO, General Counsel, and Chair of the Audit Committee of the Board of Directors of any calls or other submissions. Upon notification, we evaluate the best method of investigation, evaluation, and if required resolution of any matters. A quarterly report of any activity received by the Contractor is

also provided to us and further disclosed and if required reviewed by the Audit Committee during their quarterly meetings.

#### Maintain Records

Our Service Provider retains conflict minerals related documents, including supplier responses to CMRTs. This information is stored in a database hosted by our Service Provider.

#### *Step 2: Identifying and Assessing Risks in Our Supply Chain*

To identify and assess risks in our supply chain related to conflict minerals, we reviewed and assessed all CMRTs submitted to us. We used Assent's software to collect and manage the information from our supply chain. The primary risk we identified with respect to the data we collected from our supply chain for reporting year 2017 related to the nature of the responses we received. A large number of the responses we received were company-level CMRTs or did not specify the smelters or refiners used for the 3TGs in the components supplied to us. For those who did provide smelter or refiner information, this data was assessed for risk level and suppliers were made aware of any risk that their CMRT submission may include.

Additionally, suppliers are evaluated on program strength (further assisting in identifying risk in the supply chain). Evaluating and tracking the strength of the program meets the OECD Guidance and can assist in making key risk mitigation decisions as the program progresses. The criteria used to evaluate the strength of the program are:

- A. Have you established a conflict minerals sourcing policy?
- E. Have you implemented due diligence measures for conflict-free sourcing?
- G. Do you review due diligence information received from your suppliers against your company's expectations?
- H. Does your review process include corrective action management?

When suppliers meet or exceed those criteria (Yes to at least A, E, G and H), they are deemed to have a strong program. When suppliers do not meet those criteria, they are deemed to have a weak program. As of May 4<sup>th</sup>, 2018, 30 suppliers were identified as having a weak program.

#### *Step 3: Designing and Implementing a Response to Identified Risks*

The Company deals with each supplier on an individual basis as our response to suppliers is dependent on the risk(s) identified and exposure. Factors considered include the overall willingness of the supplier to mitigate risk as well as our ability to procure alternative suppliers. Our response is measured and does include termination of our relationship, if necessary.

#### *Step 4: Independent Third-Party Audits of Smelter's and Refiner's Due Diligence Practices.*

We do not have a direct relationship with any 3TG smelters or refiners and do not perform or direct audits of these entities within our supply chain.

#### *Step 5: Publicly Report Our Supply Chain Due Diligence*

We have published our Form SD for the year ended December 31, 2017 and this Report on our website, <http://ir.amsc.com/governance.cfm>. Information found on or accessed through our website is not considered part of this Report and is not incorporated by reference herein.

#### Due Diligence Results

### *Survey Results*

As of May 4, 2018, our overall response rate was 76% for this reporting year. Five suppliers were unable to correct their CMRT and as such, are still listed as invalid submissions. Of the 113 originally surveyed suppliers for our combined product mix, 17 have reported that the 3TG used in the products that we purchase from them were not sourced from a Covered Country. 29 suppliers indicate that the products they provide to us contain 3TGs, of which based on due diligence we have not been able to determine whether such 3TGs may have been sourced from the Covered Countries.

From the responses that we received, we identified 5 smelters that potentially posed a risk. These concerns stem from (i) proximity to the DRC and Covered Countries, (ii) Responsible Minerals Assurance Process RMAP audit status, (iii) known or plausible evidence of unethical or conflict sourcing. For suppliers that identified these specific smelters of concern on their CMRT, we created a due diligence plan. These suppliers were contacted by Assent on behalf of AMSC to mitigate these risks in the supply chain. The suppliers were asked to provide a revised company level, product specific or, user-defined CMRT that does not contain the 5 red flagged smelters identified in their CMRTs submitted to AMSC initially. The suppliers were also asked to conduct additional due diligence to confirm the presence of gold or the presence of any of these flagged facilities in the chain of custody for the part or parts supplied to AMSC.

### *Smelters and Refiners*

Assent compared the list of smelters and refiners provided in our suppliers' responses to the lists of smelters maintained by the Responsible Minerals Initiative ("RMI") and, if a supplier indicated that a facility was certified as conflict-free, confirmed that the facility was listed on RMI's list of validated conflict free smelters and refiners of 3TG. Our suppliers identified a total of 315 legitimate smelters and refiners that appear on the lists maintained by RMI. Based on the smelter list provided by suppliers via the CMRT and publicly available information, we have identified 256 smelters and refiners that are deemed RMAP Compliant – this indicates these smelters or refiners are compliant with the RMAP assessment protocols. A further 8X smelters or refiners have agreed to undergo or are currently undergoing a third-party audit. Most of the CMRTs we received were made on a company or division level basis, which did not allow us to identify which smelters or refiners listed by our suppliers actually processed the 3TG contained in our products. All smelters and refiners identified by our suppliers that we believe may source 3TG from the Covered Countries appear on RMI's list of validated conflict free smelters and refiners.

Attached, as Appendix A is a list of all of the smelters and refiners listed by our suppliers in their completed CMRTs that appear on the lists of smelters maintained by the RMI as legitimate. Since most of the CMRTs we received from our suppliers were made on a company or division level basis, rather than on a product-level basis, we are not able to identify which smelters or refiners listed on Appendix A actually processed the 3TGs contained in our products. Therefore, our list of processing smelters and refiners disclosed in Appendix A may contain more facilities than those that actually processed the 3TG contained in our products.

### *Risk Mitigation*

AMSC has taken significant steps to improve the due diligence process and is committed to continuous process improvement and taking additional steps to mitigate the risk that its necessary conflict minerals benefit armed groups. These steps include implementing a:

- Continuous internal oversight and review process of responses;
- Continuous risk based evaluation of bills of material to confirm suspect materials;
- Risk based selection of suppliers providing suspect materials for current products;
- Process for requesting declarations and after a reasonable period with no response, second requests;
- Detailed inspection of responses and following up on inconsistencies, missing information, or possible inaccuracies of information; and
- For suppliers not responding to second requests, phone call follow-up and escalation to the VP, Operations, is mandatory.

Non-responding suppliers face discontinuation of their supply service to AMSC. The Company will keep improving its due diligence measures by working more closely with suppliers to help them understand and satisfy AMSC’s requirements fully.

#### Appendix A: List of Smelters and Refiners

This list includes all of the smelters and refiners listed by our suppliers in their completed CMRTs that appear on the lists of smelters maintained by the RMI. Since most of the CMRTs we received from our suppliers were made on a company or division level basis, rather than on a product-level basis, we are not able to identify which smelters or refiners listed below actually processed the 3TGs contained in our products. Therefore, our list of processing smelters and refiners disclosed here may contain more facilities than those that actually processed the conflict minerals contained in our products. The efforts described above under “Due Diligence Performed” represent our efforts to determine the location of origin of our conflict minerals.

<b>Metal</b>	<b>Standard Smelter Name</b>	<b>Smelter Facility Location</b>	<b>Smelter ID</b>
Gold	Abington Reldan Metals, LLC	UNITED STATES	CID002708
Gold	Advanced Chemical Company	UNITED STATES	CID000015
Gold	Aida Chemical Industries Co., Ltd.	JAPAN	CID000019
Gold	Al Etihad Gold LLC	UNITED ARAB EMIRATES	CID002560
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY	CID000035
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN	CID000041
Gold	AngloGold Ashanti Córrego do Sítio Mineração	BRAZIL	CID000058
Gold	Argor-Heraeus S.A.	SWITZERLAND	CID000077
Gold	Asahi Pretec Corp.	JAPAN	CID000082
Gold	Asahi Refining Canada Ltd.	CANADA	CID000924
Gold	Asahi Refining USA Inc.	UNITED STATES	CID000920
Gold	Asaka Riken Co., Ltd.	JAPAN	CID000090
Gold	Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	TURKEY	CID000103

Gold	AU Traders and Refiners	SOUTH AFRICA	CID002850
Gold	Aurubis AG	GERMANY	CID000113
Gold	Bangalore Refinery	INDIA	CID002863
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES	CID000128
Gold	Boliden AB	SWEDEN	CID000157
Gold	C. Hafner GmbH + Co. KG	GERMANY	CID000176
Gold	Caridad	MEXICO	CID000180
Gold	CCR Refinery - Glencore Canada Corporation	CANADA	CID000185
Gold	Cendres + Métaux S.A.	SWITZERLAND	CID000189
Gold	Chimet S.p.A.	ITALY	CID000233
Gold	Chugai Mining	JAPAN	CID000264
Gold	Daejin Indus Co., Ltd.	KOREA, REPUBLIC OF	CID000328
Gold	Daye Non-Ferrous Metals Mining Ltd.	CHINA	CID000343
Gold	Degussa Sonne / Mond Goldhandel GmbH	GERMANY	CID002867
Gold	DODUCO Contacts and Refining GmbH	GERMANY	CID000362
Gold	Dowa	JAPAN	CID000401
Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF	CID000359
Gold	Eco-System Recycling Co., Ltd.	JAPAN	CID000425
Gold	Elemetal Refining, LLC	UNITED STATES	CID001322
Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES	CID002561
Gold	Fidelity Printers and Refiners Ltd.	ZIMBABWE	CID002515
Gold	GCC Gujrat Gold Centre Pvt. Ltd.	INDIA	CID002852
Gold	Geib Refining Corporation	UNITED STATES	CID002459
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA	CID002243
Gold	Great Wall Precious Metals Co., Ltd. of CBPM	CHINA	CID001909
Gold	Guangdong Jinding Gold Limited	CHINA	CID002312
Gold	Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CHINA	CID000651
Gold	Hangzhou Fuchunjiang Smelting Co., Ltd.	CHINA	CID000671
Gold	HeeSung	KOREA, REPUBLIC OF	CID000689
Gold	Heimerle + Meule GmbH	GERMANY	CID000694
Gold	Heraeus Metals Hong Kong Ltd.	CHINA	CID000707
Gold	Heraeus Precious Metals GmbH & Co. KG	GERMANY	CID000711
Gold	Hunan Chenzhou Mining Co., Ltd.	CHINA	CID000767
Gold	Hwasung CJ Co., Ltd.	KOREA, REPUBLIC OF	CID000778
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA	CID000801
Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN	CID000807
Gold	Istanbul Gold Refinery	TURKEY	CID000814
Gold	Italpreziosi	ITALY	CID002765



Gold	Japan Mint	JAPAN	CID000823
Gold	Jiangxi Copper Co., Ltd.	CHINA	CID000855
Gold	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	RUSSIAN FEDERATION	CID000927
Gold	JSC Uralelectromed	RUSSIAN FEDERATION	CID000929
Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN	CID000937
Gold	Kaloti Precious Metals	UNITED ARAB EMIRATES	CID002563
Gold	Kazakhmys Smelting LLC	KAZAKHSTAN	CID000956
Gold	Kazzinc	KAZAKHSTAN	CID000957
Gold	Kennecott Utah Copper LLC	UNITED STATES	CID000969
Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND	CID002511
Gold	Kojima Chemicals Co., Ltd.	JAPAN	CID000981
Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF	CID002605
Gold	Kyrgyzaltyn JSC	KYRGYZSTAN	CID001029
Gold	Kyshtym Copper-Electrolytic Plant ZAO	RUSSIAN FEDERATION	CID002865
Gold	L'azurde Company For Jewelry	SAUDI ARABIA	CID001032
Gold	Lingbao Gold Co., Ltd.	CHINA	CID001056
Gold	Lingbao Jinyuan Tonghui Refinery Co., Ltd.	CHINA	CID001058
Gold	L'Orfebre S.A.	ANDORRA	CID002762
Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF	CID001078
Gold	Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	CHINA	CID001093
Gold	Marsam Metals	BRAZIL	CID002606
Gold	Materion	UNITED STATES	CID001113
Gold	Matsuda Sangyo Co., Ltd.	JAPAN	CID001119
Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA	CID001149
Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE	CID001152
Gold	Metalor Technologies (Suzhou) Ltd.	CHINA	CID001147
Gold	Metalor Technologies S.A.	SWITZERLAND	CID001153
Gold	Metalor USA Refining Corporation	UNITED STATES	CID001157
Gold	Metalúrgica Met-Mex Peñoles S.A. De C.V.	MEXICO	CID001161
Gold	Mitsubishi Materials Corporation	JAPAN	CID001188
Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN	CID001193
Gold	MMTC-PAMP India Pvt., Ltd.	INDIA	CID002509
Gold	Modeltech Sdn Bhd	MALAYSIA	CID002857
Gold	Morris and Watson	NEW ZEALAND	CID002282
Gold	Morris and Watson Gold Coast	AUSTRALIA	CID002866
Gold	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION	CID001204
Gold	Nadir Metal Rafineri San. Ve Tic. A.Ş.	TURKEY	CID001220
Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN	CID001236
Gold	Nihon Material Co., Ltd.	JAPAN	CID001259

Gold	Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA	CID002779
Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN	CID001325
Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	RUSSIAN FEDERATION	CID001326
Gold	OJSC Novosibirsk Refinery	RUSSIAN FEDERATION	CID000493
Gold	PAMP S.A.	SWITZERLAND	CID001352
Gold	Pease & Curren	UNITED STATES	CID002872
Gold	Penglai Penggang Gold Industry Co., Ltd.	CHINA	CID001362
Gold	Planta Recuperadora de Metales SpA	CHILE	CID002919
Gold	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION	CID001386
Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA	CID001397
Gold	PX Précinox S.A.	SWITZERLAND	CID001498
Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA	CID001512
Gold	Refinery of Seemine Gold Co., Ltd.	CHINA	CID000522
Gold	Remondis Argentia B.V.	NETHERLANDS	CID002582
Gold	Republic Metals Corporation	UNITED STATES	CID002510
Gold	Royal Canadian Mint	CANADA	CID001534
Gold	SAAMP	FRANCE	CID002761
Gold	Sabin Metal Corp.	UNITED STATES	CID001546
Gold	Safimet S.p.A	Italy	CID002973
Gold	SAFINA A.S.	CZECH REPUBLIC	CID002290
Gold	Sai Refinery	INDIA	CID002853
Gold	Samduck Precious Metals	KOREA, REPUBLIC OF	CID001555
Gold	SAMWON Metals Corp.	KOREA, REPUBLIC OF	CID001562
Gold	SAXONIA Edelmetalle GmbH	GERMANY	CID002777
Gold	Schone Edelmetaal B.V.	NETHERLANDS	CID001573
Gold	SEMPSA Joyería Platería S.A.	SPAIN	CID001585
Gold	Shandong Tiancheng Biological Gold Industrial Co., Ltd.	CHINA	CID001619
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA	CID001622
Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA	CID001736
Gold	Singway Technology Co., Ltd.	TAIWAN	CID002516
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION	CID001756
Gold	Solar Applied Materials Technology Corp.	TAIWAN	CID001761
Gold	State Research Institute Center for Physical Sciences and Technology	LITHUANIA	CID003153
Gold	Sudan Gold Refinery	SUDAN	CID002567
Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN	CID001798
Gold	SungEel HiTech	KOREA, REPUBLIC OF	CID002918
Gold	T.C.A S.p.A	ITALY	CID002580
Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN	CID001875

Gold	The Refinery of Shandong Gold Mining Co., Ltd.	CHINA	CID001916
Gold	Tokuriki Honten Co., Ltd.	JAPAN	CID001938
Gold	Tongling Nonferrous Metals Group Co., Ltd.	CHINA	CID001947
Gold	Tony Goetz NV	BELGIUM	CID002587
Gold	TOO Tau-Ken-Altyn	KAZAKHSTAN	CID002615
Gold	Torecom	KOREA, REPUBLIC OF	CID001955
Gold	Umicore Brasil Ltda.	BRAZIL	CID001977
Gold	Umicore Precious Metals Thailand	THAILAND	CID002314
Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM	CID001980
Gold	United Precious Metal Refining, Inc.	UNITED STATES	CID001993
Gold	Universal Precious Metals Refining Zambia	ZAMBIA	CID002854
Gold	Valcambi S.A.	SWITZERLAND	CID002003
Gold	Western Australian Mint trading as The Perth Mint	AUSTRALIA	CID002030
Gold	WIELAND Edelmetalle GmbH	GERMANY	CID002778
Gold	Yamamoto Precious Metal Co., Ltd.	JAPAN	CID002100
Gold	Yokohama Metal Co., Ltd.	JAPAN	CID002129
Gold	Yunnan Copper Industry Co., Ltd.	CHINA	CID000197
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA	CID002224
Tantalum	Asaka Riken Co., Ltd.	JAPAN	CID000092
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA	CID000211
Tantalum	D Block Metals, LLC	UNITED STATES	CID002504
Tantalum	Duoluoshan	CHINA	CID000410
Tantalum	Exotech Inc.	UNITED STATES	CID000456
Tantalum	F&X Electro-Materials Ltd.	CHINA	CID000460
Tantalum	FIR Metals & Resource Ltd.	CHINA	CID002505
Tantalum	Global Advanced Metals Aizu	JAPAN	CID002558
Tantalum	Global Advanced Metals Boyertown	UNITED STATES	CID002557
Tantalum	Guangdong Rising Rare Metals-EO Materials Ltd.	CHINA	CID000291
Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	CHINA	CID000616
Tantalum	H.C. Starck Co., Ltd.	THAILAND	CID002544
Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY	CID002547
Tantalum	H.C. Starck Inc.	UNITED STATES	CID002548
Tantalum	H.C. Starck Ltd.	JAPAN	CID002549
Tantalum	H.C. Starck Smelting GmbH & Co. KG	GERMANY	CID002550
Tantalum	H.C. Starck Tantalum and Niobium GmbH	GERMANY	CID002545
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA	CID002492

Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA	CID002512
Tantalum	Jiangxi Tuohong New Raw Material	CHINA	CID002842
Tantalum	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA	CID000914
Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA	CID000917
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA	CID002506
Tantalum	KEMET Blue Metals	MEXICO	CID002539
Tantalum	KEMET Blue Powder	UNITED STATES	CID002568
Tantalum	King-Tan Tantalum Industry Ltd.	CHINA	CID000973
Tantalum	LSM Brasil S.A.	BRAZIL	CID001076
Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA	CID001163
Tantalum	Mineracao Taboca S.A.	BRAZIL	CID001175
Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN	CID001192
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA	CID001277
Tantalum	NPM Silmet AS	ESTONIA	CID001200
Tantalum	Power Resources Ltd.	MACEDONIA	CID002847
Tantalum	QuantumClean	UNITED STATES	CID001508
Tantalum	Resind Industria e Comercio Ltda.	BRAZIL	CID002707
Tantalum	RFH Tantalum Smeltry Co., Ltd.	CHINA	CID001522
Tantalum	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION	CID001769
Tantalum	Taki Chemicals	JAPAN	CID001869
Tantalum	Telex Metals	UNITED STATES	CID001891
Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN	CID001969
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA	CID002508
Tantalum	Yichun Jin Yang Rare Metal Co., Ltd.	CHINA	CID002307
Tin	Alpha	UNITED STATES	CID000292
Tin	An Vinh Joint Stock Mineral Processing Company	VIET NAM	CID002703
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA	CID000228
Tin	China Tin Group Co., Ltd.	CHINA	CID001070
Tin	CNMC (Guangxi) PGMA Co., Ltd.	CHINA	CID000278
Tin	CV Ayi Jaya	INDONESIA	CID002570
Tin	CV Dua Sekawan	INDONESIA	CID002592
Tin	CV Gita Pesona	INDONESIA	CID000306
Tin	CV Tiga Sekawan	INDONESIA	CID002593
Tin	CV United Smelting	INDONESIA	CID000315
Tin	CV Venus Inti Perkasa	INDONESIA	CID002455
Tin	Dowa	JAPAN	CID000402

Tin	Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company	VIET NAM	CID002572
Tin	EM Vinto	BOLIVIA	CID000438
Tin	Estanho de Rondônia S.A.	BRAZIL	CID000448
Tin	Fenix Metals	POLAND	CID000468
Tin	Gejiu Fengming Metallurgy Chemical Plant	CHINA	CID002848
Tin	Gejiu Jinye Mineral Company	CHINA	CID002859
Tin	Gejiu Kai Meng Industry and Trade LLC	CHINA	CID000942
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA	CID000538
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA	CID001908
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA	CID000555
Tin	Guangdong Hanhe Non-ferrous Metal Limited Company	CHINA	CID003116
Tin	Guanyang Guida Nonferrous Metal Smelting Plant	CHINA	CID002849
Tin	HuiChang Hill Tin Industry Co., Ltd.	CHINA	CID002844
Tin	Huichang Jinshunda Tin Co., Ltd.	CHINA	CID000760
Tin	Jiangxi Ketai Advanced Material Co., Ltd.	CHINA	CID000244
Tin	Jiangxi New Nanshan Technology Ltd.	CHINA	CID001231
Tin	Magnu's Minerai's Metais e Ligas Ltda.	BRAZIL	CID002468
Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA	CID001105
Tin	Melt Metais e Ligas S.A.	BRAZIL	CID002500
Tin	Metallic Resources, Inc.	UNITED STATES	CID001142
Tin	Metallo Belgium N.V.	BELGIUM	CID002773
Tin	Metallo Spain S.L.U.	SPAIN	CID002774
Tin	Mineracao Taboca S.A.	BRAZIL	CID001173
Tin	Minsur	PERU	CID001182
Tin	Mitsubishi Materials Corporation	JAPAN	CID001191
Tin	Modeltech Sdn Bhd	MALAYSIA	CID002858
Tin	Nghe Tinh Non-Ferrous Metals Joint Stock Company	VIET NAM	CID002573
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND	CID001314
Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES	CID002517
Tin	Operaciones Metalurgical S.A.	BOLIVIA	CID001337
Tin	PT Aries Kencana Sejahtera	INDONESIA	CID000309
Tin	PT Artha Cipta Langgeng	INDONESIA	CID001399
Tin	PT ATD Makmur Mandiri Jaya	INDONESIA	CID002503
Tin	PT Babel Inti Perkasa	INDONESIA	CID001402
Tin	PT Bangka Prima Tin	INDONESIA	CID002776
Tin	PT Bangka Serumpun	INDONESIA	CID003205
Tin	PT Bangka Tin Industry	INDONESIA	CID001419

Tin	PT Belitung Industri Sejahtera	INDONESIA	CID001421
Tin	PT Bukit Timah	INDONESIA	CID001428
Tin	PT DS Jaya Abadi	INDONESIA	CID001434
Tin	PT Eunindo Usaha Mandiri	INDONESIA	CID001438
Tin	PT Inti Stania Prima	INDONESIA	CID002530
Tin	PT Karimun Mining	INDONESIA	CID001448
Tin	PT Kijang Jaya Mandiri	INDONESIA	CID002829
Tin	PT Lautan Harmonis Sejahtera	INDONESIA	CID002870
Tin	PT Menara Cipta Mulia	INDONESIA	CID002835
Tin	PT Mitra Stania Prima	INDONESIA	CID001453
Tin	PT O.M. Indonesia	INDONESIA	CID002757
Tin	PT Panca Mega Persada	INDONESIA	CID001457
Tin	PT Premium Tin Indonesia	INDONESIA	CID000313
Tin	PT Prima Timah Utama	INDONESIA	CID001458
Tin	PT Refined Bangka Tin	INDONESIA	CID001460
Tin	PT Sariwiguna Binasentosa	INDONESIA	CID001463
Tin	PT Stanindo Inti Perkasa	INDONESIA	CID001468
Tin	PT Sukses Inti Makmur	INDONESIA	CID002816
Tin	PT Sumber Jaya Indah	INDONESIA	CID001471
Tin	PT Timah (Persero) Tbk Kundur	INDONESIA	CID001477
Tin	PT Timah (Persero) Tbk Mentok	INDONESIA	CID001482
Tin	PT Tinindo Inter Nusa	INDONESIA	CID001490
Tin	PT Tommy Utama	INDONESIA	CID001493
Tin	Resind Industria e Comercio Ltda.	BRAZIL	CID002706
Tin	Rui Da Hung	TAIWAN	CID001539
Tin	Soft Metais Ltda.	BRAZIL	CID001758
Tin	Super Ligas	Brazil	CID002756
Tin	Thaisarco	THAILAND	CID001898
Tin	Tuyen Quang Non-Ferrous Metals Joint Stock Company	VIET NAM	CID002574
Tin	White Solder Metalurgia e Mineraçao Ltda.	BRAZIL	CID002036
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA	CID002158
Tin	Yunnan Tin Company Limited	CHINA	CID002180
Tungsten	A.L.M.T. TUNGSTEN Corp.	JAPAN	CID000004
Tungsten	ACL Metais Eireli	BRAZIL	CID002833
Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM	CID002502
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA	CID002513
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA	CID000258
Tungsten	Fujian Jinxin Tungsten Co., Ltd.	CHINA	CID000499
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA	CID002645

Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA	CID000875
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA	CID002315
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA	CID002494
Tungsten	Ganzhou Yatai Tungsten Co., Ltd.	CHINA	CID002536
Tungsten	Global Tungsten & Powders Corp.	UNITED STATES	CID000568
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA	CID000218
Tungsten	H.C. Starck Smelting GmbH & Co.KG	GERMANY	CID002542
Tungsten	H.C. Starck Tungsten GmbH	GERMANY	CID002541
Tungsten	Hunan Chenzhou Mining Co., Ltd.	CHINA	CID000766
Tungsten	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	CHINA	CID002579
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA	CID000769
Tungsten	Hunan Litian Tungsten Industry Co., Ltd.	CHINA	CID003182
Tungsten	Hydrometallurg, JSC	RUSSIAN FEDERATION	CID002649
Tungsten	Japan New Metals Co., Ltd.	JAPAN	CID000825
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA	CID002551
Tungsten	Jiangxi Dayu Longxintai Tungsten Co., Ltd.	CHINA	CID002647
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA	CID002321
Tungsten	Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd.	CHINA	CID002313
Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA	CID002318
Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CHINA	CID002317
Tungsten	Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd.	CHINA	CID002535
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA	CID002316
Tungsten	Kennametal Fallon	UNITED STATES	CID000966
Tungsten	Kennametal Huntsville	UNITED STATES	CID000105
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA	CID002319
Tungsten	Moliren Ltd	RUSSIAN FEDERATION	CID002845
Tungsten	Niagara Refining LLC	UNITED STATES	CID002589
Tungsten	Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC	VIET NAM	CID002543
Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES	CID002827
Tungsten	South-East Nonferrous Metal Company Limited of Hengyang City	CHINA	CID002815
Tungsten	Tejing (Vietnam) Tungsten Co., Ltd.	VIET NAM	CID001889
Tungsten	Unecha Refractory metals plant	RUSSIAN FEDERATION	CID002724
Tungsten	Vietnam Youngsun Tungsten Industry Co., Ltd.	VIET NAM	CID002011
Tungsten	Wolfram Bergbau und Hütten AG	AUSTRIA	CID002044

Tungsten	Woltech Korea Co., Ltd.	KOREA, REPUBLIC OF	CID002843
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA	CID002320
Tungsten	Xiamen Tungsten Co., Ltd.	CHINA	CID002082
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA	CID002830
Tungsten	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	CHINA	CID002095

## Appendix B – Countries of Origin

This list of potential countries of origin is populated based on publicly available information, our RCOI and due diligence. It is important to note that this is also based on company level responses and therefore, it is not certain which of these countries of origin can be linked to our products.

Argentina, Australia, Austria, Benin, Bolivia (Plurinational State of), Brazil, Burkina Faso, Burundi, Cambodia, Canada, Chile, China, Colombia, Congo, Democratic Republic of the, Ecuador, Eritrea, Ethiopia, France, Germany, Ghana, Guatemala, Guinea, Guyana, Honduras, India, Indonesia, Japan, Kazakhstan, Laos, Madagascar, Malaysia, Mali, Mexico, Mongolia, Mozambique, Myanmar, Namibia, Nicaragua, Nigeria, Panama, Peru, Portugal, Russian Federation, Rwanda, Senegal, Sierra Leone, South Africa, Spain, Thailand, Togo, Uganda, United Kingdom of Great Britain and Northern Ireland, United States of America, Uzbekistan, Viet Nam, Zimbabwe