

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

FORM SD
Specialized Disclosure Report

Trane Technologies plc

(Exact name of registrant as specified in its charter)

Ireland	001-34400	98-0062632
(State or other jurisdiction of incorporation or organization)	(Commission File Number)	(IRS Employer Identification No.)

170/175 Lakeview Dr. Airside Business Park Swords, Co. Dublin Ireland	N/A
(Address of principal executive offices)	(Zip Code)

Keith Sultana
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Trane Technologies plc
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(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:

X Rule 13p-1 under the Securities Exchange Act (17 CFR 240.13p-1) for the reporting period from January 1 to December 31, 2021.

Section 1 - Conflict Minerals Disclosure

Item 1.01 Conflict Minerals Disclosure and Report

Conflict Minerals Disclosure

Trane Technologies plc has conducted a reasonable country of origin inquiry regarding the minerals specified by Rule 13p-1 of the Securities Exchange Act of 1934, as amended (the “conflict minerals”) necessary to the functionality or production of products manufactured or contracted to manufacture by the Company for the fiscal year ended December 31, 2021. The Company exercised due diligence on the source and chain of custody of its conflict minerals using the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas. A copy of the Company’s Conflict Minerals Report is provided as Exhibit 1.01 to this Form SD and is publicly available at <https://www.tranetechnologies.com/en/index/company/doing-business-with-us/conflict-minerals.html>.

Item 1.02 Exhibit

The exhibit required by this specialized disclosure report is attached hereto as exhibit 1.01.

Section 2 - Exhibits

Item 2.01 Exhibits

<i><u>Exhibit</u></i>	<i><u>Description</u></i>
<u>1.01</u>	Conflict Minerals Report

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.

TRANE TECHNOLOGIES PLC

(Registrant)

/s/ Keith Sultana

Keith Sultana
Senior Vice President, Supply Chain & Operational Services

May 31, 2022

(Date)

Conflict Minerals Disclosure

Introduction

Trane Technologies plc has conducted a reasonable country of origin inquiry ("RCOI") regarding the minerals specified by Rule 13p-1 of the Securities Exchange Act of 1934, as amended (the "conflict minerals") necessary to the functionality or production of products manufactured by the Company for the fiscal year ended December 31, 2021. The Company exercised due diligence on the source and chain of custody of its conflict minerals using the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (the "OECD Framework").

Company Overview

The Company is a global climate innovator. The Company brings sustainable and efficient solutions to buildings, homes and transportation through the Company's strategic brands, Trane® and Thermo King®, and its environmentally responsible portfolio of products, services and connected intelligent controls. The Company generates revenue and cash primarily through the design, manufacture, sale and service of solutions for Heating, Ventilation and Air Conditioning (HVAC) and transport refrigeration. As an industry leader with an extensive global install base, the Company's growth strategy includes expanding recurring revenue through services and rental options. The Company's unique business operating system, uplifting culture and highly engaged team around the world are also central to its earnings and cash flow growth.

Starting in 2022, the Company operates under four regional operating segments designed to create deep customer focus and relevance in markets around the world. The Company determined that its two Europe, Middle East and Africa (EMEA) operating segments meet the aggregation criteria based on similar operating and economic characteristics, resulting in one reportable segment. Therefore, the Company has three regional reportable segments, Americas, EMEA and Asia Pacific. Intercompany sales between segments are immaterial.

- The Company's Americas segment innovates for customers in North America and Latin America. The Americas segment encompasses commercial heating and cooling systems, building controls, and energy services and solutions; residential heating and cooling; and transport refrigeration systems and solutions.
- The Company's EMEA segment innovates for customers in the Europe, Middle East and Africa region. The EMEA segment encompasses heating and cooling systems, services and solutions for commercial buildings, and transport refrigeration systems and solutions.
- The Company's Asia Pacific segment innovates for customers throughout the Asia Pacific region. The Asia Pacific segment encompasses heating and cooling systems, services and solutions for commercial buildings and transport refrigeration systems and solutions.

Product Overview

Our principal products and services as of December 31, 2021 included the following:

Air conditioners	Indoor air quality assessments and related products for HVAC and Transport solutions
Air exchangers	Industrial refrigeration
Air handlers	Installation contracting
Airside and terminal devices	Large commercial unitary
Auxiliary power units (electric and diesel)	Light commercial unitary
Building management systems	Motor replacements
Bus air purification systems	Multi-pipe HVAC systems
Chillers	Package heating and cooling systems
Coils and condensers	Parts and supplies (aftermarket and OEM)
Container refrigeration systems and gensets	Performance contracting
Control systems	Rail refrigeration systems
Cryogenic refrigeration systems	Rate chambers
Diesel-powered refrigeration systems	Refrigerant reclamation
Ductless systems	Repair and maintenance services
Electric-powered trailer refrigeration systems	Rental services
Electric-powered truck refrigeration systems	Self-powered truck refrigeration systems
Energy management services	Service agreements
Facility management services	Temporary heating and cooling systems
Furnaces	Thermostats/controls
Geothermal systems	Trailer refrigeration systems
Heat pumps	Transport heater products
Home automation	Ultra-low temperature freezers
Humidifiers	Unitary systems (light and large)
Hybrid and non-diesel transport refrigeration	Variable refrigerant flow
Hybrid-powered trailer refrigeration	Vehicle-powered truck refrigeration systems
Ice energy storage solutions	Water source heat pumps

These products are sold primarily under our tradenames including Trane® and Thermo King®.

Description of Reasonable Country of Origin Inquiry

We conducted a Reasonable Country of Origin Inquiry (an “RCOI”) regarding the conflict minerals by utilizing the conflict minerals reporting template (“CMRT”) developed by the Electronic Industry Citizenship Coalition (“EICC”) and Global e-Sustainability Initiative (“GeSI”). We also performed due diligence work on the source and chain of custody of our conflict minerals using the OECD Framework, an internationally recognized due diligence framework. We primarily rely on the conflict-free smelter program designed and managed by the Responsible Minerals Initiative (“RMI”) (formerly known as the Conflict-Free Sourcing Initiative) to conduct our risk assessment.

Determination

We were unable to determine that all the conflict minerals contained in our products do not originate from the Covered Countries due to, among other things, the following:

- Many of our suppliers submitted responses that were declared on a company-wide basis (*i.e.*, representing the smelters and refiners associated with all product offerings of the supplier that contained conflict minerals) and not specific to the materials supplied to the Company. Therefore, in combination with multiple layers in our supply chain, we believe that these declarations might include smelters and refiners that do not provide the conflict minerals that are in our products.
- A number of our suppliers identified smelters/refiners that do not participate in the Responsible Minerals Assurance Process (“RMAP”) or a similar program and other suppliers failed to identify any smelter/refiner in their responses to

us. Furthermore, we were unable to obtain responses from all of our suppliers and other suppliers provided incomplete or inconsistent data.

As a result, we do not have sufficient information to conclusively determine the country of origin of all of the conflict minerals in our products and, if such conflict minerals did originate in the Covered Countries, whether such conflict minerals were from recycled or scrap sources or were from other conflict free sources. Accordingly, the Company conducted the due diligence measures described below.

Due Diligence

In accordance with Rule 13p-1, the Company performed due diligence to determine the source and chain of custody necessary to determine the presence of conflict minerals in the Company's products. The Company designed its due diligence measures to conform in all material respects with the OECD Framework and related supplements for each of the conflict minerals.

The Company, as a purchaser, is many steps removed from the mining of conflict minerals and does not purchase raw ore or unrefined conflict minerals. Identifying the presence and origin of conflict minerals cannot be determined with any certainty once the raw ores are smelted, refined and converted to ingots, bullion or other conflict mineral-containing derivatives. Although the smelters and refiners are consolidating points for raw ore and are in the best position in the supply chain to know the origin of the ores, the Company focused its efforts on its suppliers in an effort to build conflict minerals awareness and assess the transparency of its supply chain and make initial identification, where possible, of the smelters/refiners in its supply chain.

The discussion below provides the applicable OECD Framework recommendation (in *bold/italics*) followed by a summary of the Company's activities in line with the OECD Framework.

1. *Management Systems.*

The Company adopted a Conflict Minerals Policy in 2013. The policy requires suppliers to perform due diligence and outlines the Company's expectation of suppliers. During 2014, the Company revised and strengthened the policy. During 2021, the Company continued to communicate the policy to suppliers and the public through its website, letters sent to suppliers and customers and telephone calls.

Internal Management Systems.

The Company's conflict minerals compliance program for the fiscal year ended December 31, 2021 was managed by a cross-functional team lead by procurement and including representatives from procurement, legal and finance. This team discussed conflict minerals compliance issues and reviewed the status of the diligence process.

Control System and Supply Chain Transparency

The Company implemented a process to evaluate commodities and suppliers in the supply chain for potential conflict minerals risk and an internal process map for the conflict minerals process that is subject to periodic reviews. Supplier agreement templates require suppliers and licensees to provide information on their use and source of conflict minerals. Given the size and complexity of the Company's global supply chain, the Company focused on its largest suppliers, ranked by the amount the Company spends with each such supplier, and suppliers that had the highest probability of supplying the Company with materials or components containing conflict minerals (the "Targeted Suppliers"). For 2021, this group represented, greater than 82% of the Company's in-scope suppliers by spend. The Company requested supply chain information from Targeted Suppliers utilizing templates developed by the EICC and GeSI. During 2021, the Company distributed the CMRT to Targeted Suppliers using Gensuite, a third party vendor, tracked responses and followed up with unresponsive suppliers. The Company maintains records relating to its annual supplier survey.

Supplier Engagement

The Company's standard global terms and conditions include a conflict minerals clause. The Company's standard procurement contracts also contain a conflict minerals clause. In 2021, the Company maintained its preferred supplier program. In order to be designated as a preferred supplier of the Company, a supplier must supply any required conflict minerals information to the Company and comply with other required criteria.

Grievance Mechanism

The Company has an e-mail address for receiving conflict minerals communications internally and an external e-mail mechanism through the Company's public website. The Company intends to treat grievances as red flags for purposes of the due diligence process.

2. *Identify and assess risk in the supply chain.*

The Company works with its commodity team and engineering team as appropriate to review the commodities necessary for the manufacture of its products to determine the associated level of risk of containing conflict minerals focusing its due diligence efforts on commodities at the highest risk.

Following the identification of the commodities, the Company requires Targeted Suppliers to complete a survey using the EICC-GeSI template at a company and parts level. The Company reviews survey responses for completeness and compiles aggregate survey responses. The Company follows up with suppliers when responses are incomplete or other questions are raised by the responses. The Company tracks response rates and red flags as part of its conflict minerals reporting process.

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

The Company developed a strategy to systematically reduce the extent of exposure to certain risk and the likelihood of its occurrence. Steps taken include communicating a policy to Targeted Suppliers noting that suppliers must thoroughly document their efforts to determine the source of any conflict minerals or derivatives and be prepared to provide the Company with evidence of the origin of any conflict minerals contained in products supplied to the Company. The strategy uses a documented escalation process for suppliers who fail to respond, which may result in termination of the supplier's relationship with the Company and/or failure to be considered for future projects with the Company.

The Company has created a standard due diligence process, has engaged in a gap analysis regarding its conflict minerals process, and has monitored and tracked responses to its conflict minerals requests as well as its escalation efforts. Senior management is updated as needed. Additional fact finding, risk assessments and evaluations of changes in circumstances take place as part of the Company's annual review of processes and procedures.

4. *Carry out independent third-party audit of supply chain due diligence at identified points in the supply chain. Companies at identified points in the supply chain should have their due diligence practices audited by independent third parties.*

In 2014, the Company engaged an independent third party to provide a review of the Company's conflict minerals compliance program including review of its existing conflict minerals policy and due diligence process. The Company implemented enhancements to the program in 2014 and 2015 as a result of this review. In 2021, the Company continued its membership in the RMI. The Company continued to implement steps using information from the RMI to conduct a review of summary smelter information to determine if the smelter is certified as conflict free or presents a "red flag" as defined by the OECD Guidance as part of its diligence related to 2021 supplier survey responses.

5. *Report on supply chain due diligence.*

The Company has complied with its SEC filing requirement regarding its conflict minerals program and due diligence by the filing of this report. The Company has made this report available on its external website at <https://www.tranetechnologies.com/en/index/company/doing-business-with-us/conflict-minerals.html> and has included its conflict minerals policy and other resources at that web address. The Company continues to refine and improve its conflict minerals policy, questionnaire and processes, and to expand awareness regarding its conflict minerals policies.

Results of Due Diligence

After performing the due diligence described above, we are unable to determine that all the conflict minerals contained in the products described above did not originate from the Covered Countries. For the reasons stated in this report, we also do not have sufficient information to conclusively determine the country of origin of all of the conflict minerals in our products described below and, if such conflict minerals did originate in the Covered Countries, whether such conflict minerals were from recycled or scrap sources or were from other conflict free sources.

We have provided this information as of the date of this report. Subsequent events, such as the inability or unwillingness of any suppliers, smelters or refiners to provide us with complete information, may affect our future determinations under the Rule.

Information on Smelters or Refiners

The CMRT requested that the Targeted Suppliers provide the Company with information on the smelters or refiners that the Targeted Suppliers and its suppliers use to supply conflict minerals to the Company. Because the Company does not typically have a direct relationship with the facilities used to process conflict minerals, we must rely on information provided by the Targeted Suppliers. Some responses from the Targeted Suppliers indicated that they were unable to provide smelter or refiner information at this time. Other Targeted Suppliers provided information on all smelters or refiners used by the Targeted Supplier but could not provide information linking specific smelters or refiners used to process conflict minerals with products provided to the Company. Some Targeted Suppliers provided names that the suppliers described as “smelters” but such names could not be linked to smelters on the RMI list, and may not, in fact, be smelters. Based on the information provided by the Targeted Suppliers, the Company has identified 389 smelters from the RMI list, of which 230 have been validated as audited and found conformant with the relevant RMAP standard. These smelters are included in the list attached as Annex 1 to this report.

Steps to Improve Due Diligence

The Company continues to identify opportunities to improve its due diligence and mitigate risk relating to conflict minerals. Below are some of the steps that the Company is considering taking:

- Continuation of supplier engagement;
- Continuation of company membership in RMI;
- Continuation of our supplier engagement and training and encouraging suppliers to use training resources available through industry associations and the RMI; and
- Encouraging supplier and other company membership and participation in RMI.

Cautionary Statement about Forward-Looking Statements

Certain statements in this report, other than purely historical information, are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “forecast,” “outlook,” “intend,” “strategy,” “plan,” “may,” “should,” “will,” “could,” “would,” “will be,” “will continue,” “will likely result,” or the negative thereof or variations thereon or similar terminology generally intended to identify forward-looking statements.

Forward-looking statements are based on currently available information and our current assumptions, expectations and projections about future events. While we believe that our assumptions, expectations and projections are reasonable in view of the currently available information, you are cautioned not to place undue reliance on our forward-looking statements. You are advised to review any further disclosures we make on related subjects in materials we file with or furnish to the SEC. Forward-looking statements speak only as of the date they are made and are not guarantees of future performance. They are subject to future events, risks and uncertainties - many of which are beyond our control - as well as potentially inaccurate assumptions, that could cause actual results to differ materially from our expectations and projections. We do not undertake to update any forward-looking statements.

Annex 1

Metal	Smelter Name	Country
Gold	NH Recytech Company	Korea, Republic of
Gold	Safimet S.p.A	Italy
Gold	PAMP S.A.	Switzerland
Gold	Planta Recuperadora de Metales SpA	Chile
Gold	PT Aneka Tambang (Persero) Tbk	Indonesia
Gold	Ohura Precious Metal Industry Co., Ltd.	Japan
Gold	Materion	United States
Gold	JX Nippon Mining & Metals Co., Ltd.	Japan
Gold	Western Australian Mint (T/a The Perth Mint)	Australia
Gold	Torecom	Korea, Republic of
Gold	Umicore S.A. Business Unit Precious Metals Refining	Belgium
Gold	United Precious Metal Refining, Inc.	United States
Gold	Valcambi S.A.	Switzerland
Gold	Shandong Gold Smelting Co., Ltd.	China
Gold	Tokuriki Honten Co., Ltd.	Japan
Gold	Sumitomo Metal Mining Co., Ltd.	Japan
Gold	Tanaka Kikinzoku Kogyo K.K.	Japan
Gold	Sichuan Tianze Precious Metals Co., Ltd.	China
Gold	PX Precinox S.A.	Switzerland
Gold	Rand Refinery (Pty) Ltd.	South Africa
Gold	Royal Canadian Mint	Canada
Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	Turkey
Gold	Navoi Mining and Metallurgical Combinat	Uzbekistan
Gold	Nihon Material Co., Ltd.	Japan
Gold	Matsuda Sangyo Co., Ltd.	Japan
Gold	Mitsubishi Materials Corporation	Japan
Gold	Mitsui Mining and Smelting Co., Ltd.	Japan
Gold	LS-NIKKO Copper Inc.	Korea, Republic of
Gold	Asahi Refining USA Inc.	United States
Gold	Asahi Refining Canada Ltd.	Canada
Gold	Marsam Metals	Brazil
Gold	LT Metal Ltd.	Korea, Republic of
Gold	8853 S.p.A.	Italy
Gold	Italpreziosi	Italy
Gold	Metal Concentrators SA (Pty) Ltd.	South Africa
Gold	Eco-System Recycling Co., Ltd. North Plant	Japan
Gold	Eco-System Recycling Co., Ltd. West Plant	Japan
Gold	Metalor Technologies (Hong Kong) Ltd.	China
Gold	Metalor Technologies (Singapore) Pte., Ltd.	Singapore
Gold	Metalor Technologies S.A.	Switzerland
Gold	Metalor USA Refining Corporation	United States
Gold	Samduck Precious Metals	Korea, Republic of
Gold	SEMPA Joyeria Plateria S.A.	Spain
Gold	Metalor Technologies (Suzhou) Ltd.	China
Gold	Kazzinc	Kazakhstan
Gold	Kennecott Utah Copper LLC	United States

Gold	Kojima Chemicals Co., Ltd.	Japan
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	China
Gold	Ishifuku Metal Industry Co., Ltd.	Japan
Gold	Istanbul Gold Refinery	Turkey
Gold	Japan Mint	Japan
Gold	Heimerle + Meule GmbH	Germany
Gold	Heraeus Metals Hong Kong Ltd.	China
Gold	Heraeus Germany GmbH Co. KG	Germany
Gold	DSC (Do Sung Corporation)	Korea, Republic of
Gold	Dowa	Japan
Gold	Eco-System Recycling Co., Ltd. East Plant	Japan
Gold	Aurubis AG	Germany
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	Philippines
Gold	Boliden AB	Sweden
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	China
Gold	Solar Applied Materials Technology Corp.	Taiwan
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	Brazil
Gold	Argor-Heraeus S.A.	Switzerland
Gold	Asahi Pretec Corp.	Japan
Gold	Advanced Chemical Company	United States
Gold	Aida Chemical Industries Co., Ltd.	Japan
Gold	Agosi AG	Germany
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	Uzbekistan
Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	Mexico
Gold	Chimet S.p.A.	Italy
Gold	Chugai Mining	Japan
Gold	C. Hafner GmbH + Co. KG	Germany
Gold	Jiangxi Copper Co., Ltd.	China
Gold	CCR Refinery - Glencore Canada Corporation	Canada
Gold	Cendres + Metaux S.A.	Switzerland
Gold	Asaka Riken Co., Ltd.	Japan
Gold	SungEel HiMetal Co., Ltd.	Korea, Republic of
Gold	Bangalore Refinery	India
Gold	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	Austria
Gold	L'Orfebvre S.A.	Andorra
Gold	WIELAND Edelmetalle GmbH	Germany
Gold	TOO Tau-Ken-Altyn	Kazakhstan
Gold	SAAMP	France
Gold	Korea Zinc Co., Ltd.	Korea, Republic of
Gold	T.C.A S.p.A	Italy
Gold	REMONDIS PMR B.V.	Netherlands
Gold	Emirates Gold DMCC	United Arab Emirates
Gold	Al Etihad Gold Refinery DMCC	United Arab Emirates
Gold	Singway Technology Co., Ltd.	Taiwan
Gold	MMTC-PAMP India Pvt., Ltd.	India
Gold	KGHM Polska Miedz Spolka Akcyjna	Poland
Gold	Geib Refining Corporation	United States
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	China
Gold	SAFINA A.S.	Czech Republic

Gold	Umicore Precious Metals Thailand	Thailand
Gold	Yamakin Co., Ltd.	Japan
Gold	Yokohama Metal Co., Ltd.	Japan
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	China
Tantalum	RFH Yancheng Jinye New Material Technology Co., Ltd.	China
Tantalum	JiuJiang JinXin Nonferrous Metals Co., Ltd.	China
Tantalum	Jiujiang Tanbre Co., Ltd.	China
Tantalum	Resind Industria e Comercio Ltda.	Brazil
Tantalum	Mineracao Taboca S.A.	Brazil
Tantalum	Metallurgical Products India Pvt., Ltd.	India
Tantalum	QuantumClean	United States
Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	China
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	China
Tantalum	Mitsui Mining and Smelting Co., Ltd.	Japan
Tantalum	NPM Silmet AS	Estonia
Tantalum	AMG Brasil	Brazil
Tantalum	Ulba Metallurgical Plant JSC	Kazakhstan
Tantalum	Solikamsk Magnesium Works OAO	Russian Federation*
Tantalum	Taki Chemical Co., Ltd.	Japan
Tantalum	Telex Metals	United States
Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	China
Tantalum	FIR Metals & Resource Ltd.	China
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	China
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	China
Tantalum	D Block Metals, LLC	United States
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	China
Tantalum	H.C. Starck Hermsdorf GmbH	Germany
Tantalum	TANIOBIS Japan Co., Ltd.	Japan
Tantalum	TANIOBIS Smelting GmbH & Co. KG	Germany
Tantalum	TANIOBIS Co., Ltd.	Thailand
Tantalum	KEMET de Mexico	Mexico
Tantalum	H.C. Starck Inc.	United States
Tantalum	Global Advanced Metals Boyertown	United States
Tantalum	Global Advanced Metals Aizu	Japan
Tantalum	TANIOBIS GmbH	Germany
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	China
Tantalum	Jiangxi Tuohong New Raw Material	China
Tantalum	XIMEI RESOURCES (GUANGDONG) LIMITED	China
Tantalum	F&X Electro-Materials Ltd.	China
Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	China
Tin	PT Bangka Serumpun	Indonesia
Tin	Ma'anshan Weitai Tin Co., Ltd.	China
Tin	PT Rajawali Rimba Perkasa	Indonesia
Tin	Tin Technology & Refining	United States
Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	China
Tin	Novosibirsk Processing Plant Ltd.	Russian Federation*
Tin	PT Babel Surya Alam Lestari	Indonesia
Tin	Operaciones Metalurgicas S.A.	Bolivia
Tin	EM Vinto	Bolivia

Tin	PT Artha Cipta Langgeng	Indonesia
Tin	PT Babel Inti Perkasa	Indonesia
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	Thailand
Tin	Malaysia Smelting Corporation (MSC)	Malaysia
Tin	White Solder Metalurgia e Mineracao Ltda.	Brazil
Tin	Thaisarco	Thailand
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	China
Tin	Soft Metais Ltda.	Brazil
Tin	Rui Da Hung	Taiwan
Tin	Jiangxi New Nanshan Technology Ltd.	China
Tin	Mitsubishi Materials Corporation	Japan
Tin	China Tin Group Co., Ltd.	China
Tin	Resind Industria e Comercio Ltda.	Brazil
Tin	PT Cipta Persada Mulia	Indonesia
Tin	Thai Nguyen Mining and Metallurgy Co., Ltd.	Viet Nam
Tin	Fabrica Auricchio Industria e Comercio Ltda.	Brazil
Tin	Luna Smelter, Ltd.	Rwanda
Tin	CRM Synergies	Spain
Tin	PT Stanindo Inti Perkasa	Indonesia
Tin	PT Timah Tbk Kundur	Indonesia
Tin	PT Timah Tbk Mentok	Indonesia
Tin	PT Tinindo Inter Nusa	Indonesia
Tin	PT Prima Timah Utama	Indonesia
Tin	PT Sariwiguna Binasentosa	Indonesia
Tin	PT Refined Bangka Tin	Indonesia
Tin	Mineracao Taboca S.A.	Brazil
Tin	Metallic Resources, Inc.	United States
Tin	Minsur	Peru
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	China
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	China
Tin	Estanho de Rondonia S.A.	Brazil
Tin	Fenix Metals	Poland
Tin	Dowa	Japan
Tin	PT Mitra Stania Prima	Indonesia
Tin	Alpha	United States
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	China
Tin	PT Menara Cipta Mulia	Indonesia
Tin	Metallo Belgium N.V.	Belgium
Tin	Metallo Spain S.L.U.	Spain
Tin	O.M. Manufacturing Philippines, Inc.	Philippines
Tin	PT ATD Makmur Mandiri Jaya	Indonesia
Tin	Magnu's Minerais Metais e Ligas Ltda.	Brazil
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	China
Tin	Tin Smelting Branch of Yunnan Tin Co., Ltd.	China
Tungsten	KGETS Co., Ltd.	Korea, Republic of
Tungsten	Fujian Ganmin RareMetal Co., Ltd.	China
Tungsten	Lianyou Metals Co., Ltd.	Taiwan
Tungsten	JSC "Kirovgrad Hard Alloys Plant"	Russian Federation*
Tungsten	Wolfram Bergbau und Hutten AG	Austria

Tungsten	Xiamen Tungsten Co., Ltd.	China
Tungsten	China Molybdenum Tungsten Co., Ltd.	China
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	China
Tungsten	Fujian Xinlu Tungsten Co., Ltd.	China
Tungsten	Hubei Green Tungsten Co., Ltd.	China
Tungsten	Cronimet Brasil Ltda	Brazil
Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	China
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	China
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	China
Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	China
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	China
Tungsten	Kennametal Fallon	United States
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	China
Tungsten	Japan New Metals Co., Ltd.	Japan
Tungsten	Hunan Chenzhou Mining Co., Ltd.	China
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	China
Tungsten	Global Tungsten & Powders Corp.	United States
Tungsten	Kennametal Huntsville	United States
Tungsten	A.L.M.T. Corp.	Japan
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	China
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	China
Tungsten	Moliren Ltd.	Russian Federation*
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	China
Tungsten	ACL Metais Eireli	Brazil
Tungsten	Philippine Chuangxin Industrial Co., Inc.	Philippines
Tungsten	Hydrometallurg, JSC	Russian Federation*
Tungsten	Unecha Refractory metals plant	Russian Federation*
Tungsten	Niagara Refining LLC	United States
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	China
Tungsten	TANIOBIS Smelting GmbH & Co. KG	Germany
Tungsten	Masan High-Tech Materials	Viet Nam
Tungsten	H.C. Starck Tungsten GmbH	Germany
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	China
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	China
Tungsten	Asia Tungsten Products Vietnam Ltd.	Viet Nam
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	China
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	China

* The Company does not source directly from Russia. Furthermore, since Russia invaded Ukraine in February 2022, we have halted new orders and shipments into and out of Russia and Belarus until further notice and in alignment with international sanctions. RMI provides the Company with a list of potential countries of origin which includes all countries of origin compiled from RMI's member participants. The inclusion of a country on the list from RMI is not a final indicator that the Company utilized materials sourced from this country.