

**SAMSUNG
ELECTRONICS'
RESPONSIBLE
MINERALS
REPORT 2021**

Samsung Electronics' Declaration on Conflict Minerals

Respecting and protecting human rights is a top priority for Samsung Electronics Co., Ltd. ("Samsung") and this is codified and enforced through our Code of Conduct.

We do not tolerate human rights violations or environmental damage caused by mineral mining in conflict-affected and high-risk areas worldwide. We are committed to eliminating such violations and abuses, including child exploitation and sexual violence associated with mineral mining, and minimizing any harm to the health and safety of the workers at mining sites across the globe.

For that reason, we ensure that our supply chain complies with the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (hereinafter referred to as the "OECD Due Diligence Guidance"). This requires all our business partners to abide by our Supplier Code of Conduct based on internationally accepted standards.

We work with other global companies by taking part in umbrella organizations such as the Responsible Business Alliance's (RBA) Responsible Minerals Initiative (RMI) and the European Partnership for Responsible Minerals (EPRM), eliminating conflict minerals and supporting responsible mineral sourcing.

Through these efforts, we have established a conflict-free minerals management system that prohibits the use of minerals sourced from conflict-affected and high-risk areas in 10 African countries, including the Democratic Republic of the Congo. Additionally, we only use minerals from smelters certified by global, independent third-party organizations.

About this report

Purpose

Minerals illegally mined in conflict-affected and high-risk areas, including the Democratic Republic of the Congo, such as tantalum, tin, tungsten, and gold have come under increasing public scrutiny, and this has led to a growing call for companies to implement responsible mineral sourcing policies in their supply chains.

Samsung Electronics products do use various components that contain minerals such as tantalum, tin, tungsten, and gold, as well as cobalt, which have unique properties necessary for the functionality of electrical parts and electronic products manufactured by the company. As a responsible global company, we work to safeguard the future and protect the environment through a robust supply chain management system and participation from our suppliers. The Responsible Minerals Report outlines our efforts in this domain.

Reporting Period

All products intended for commercial sales to consumers and all materials used for production directly purchased by Samsung Electronics are managed on a yearly basis from January 1 through December 31.

This report covers activities that took place from January 1 through December 31, 2020.

Samsung Electronics' Policy on Responsible Mineral Sourcing

Policy

We are committed to contributing to a more sustainable future for the public as well as our planet. We believe that establishing a responsible supply chain and encouraging the participation of our suppliers is the most important step we can take in minimizing human rights violations and environmental degradation.

Based on the OECD Due Diligence Guidance, we manage our supply chain on an ongoing basis for ethical and responsible sourcing and mandate our suppliers to adopt our Supplier Code of Conduct, based on international industry standards. We also actively engage other companies and the relevant stakeholders in the industry to promote responsible sourcing of minerals through initiatives such as RBA, RMI, and EPRM.

Conflict Minerals

We are aware that in 10 African countries, including the Democratic Republic of the Congo, standards to protect the environment and human rights do not adequately safeguard all rights. Because of this, we have prohibited the use of conflict minerals such as tantalum, tin, tungsten, and gold that are mined illegally in conflict regions. To ensure that our suppliers are held to the highest standards, we conduct thorough reviews of the minerals used in their products in our supply chain.

To establish a system for sourcing of conflict-free minerals, we use a due diligence process for conflict minerals that is in line with the OECD Due Diligence Guidance. Additionally, we demand that our suppliers work only with smelters that have received RMAP (Responsible Minerals Assurance Process) certifications, and we halt transactions that include any minerals provided by non RMAP-conformant smelters. By only using RMAP-certified smelters, we can ensure that the minerals have been mined ethically regardless of origin. However, we do not ban sourcing from any specific regions, including Africa, as this would undermine the progress that is being made to mine responsibly.

We also provide suppliers with clear guidelines and raise their awareness of conflict minerals through training and education support and conduct regular inspections on the use of conflict minerals throughout our supply chain by reviewing the information submitted by suppliers and by carrying out on-site inspection as needed for companies that require additional verification.

Responsible Minerals

In addition to our commitment to conflict-free minerals, we also manage the supply chain more extensively to monitor any mineral mining that has raised concerns regarding human rights violations or environmental destruction. In particular, we ensure that the issue of underage workers in cobalt mines in the Democratic Republic of the Congo is managed in accordance with the OECD Due Diligence Guidance. We are also mindful of other potential issues in mining and continually conduct diligent monitoring of these matters as well as collaborating with global organizations to consider additionally required responses.

We work to ensure that mining in our supply chain is not used for funding conflicts and is carried out in ways that respect human rights and the environment, while being mindful of social responsibilities.

Target Minerals

We closely monitor the mining of key minerals such as cobalt, as well as any illegally mined minerals, such as tantalum, tin, tungsten, and gold in 10 African countries, including the Democratic Republic of the Congo, in our supply chain. We have in place continual monitoring of our suppliers and their mineral sourcing practice and we are working to expand the scope of our monitoring efforts.

Main minerals

Conflict Minerals

Conflict minerals, known as 3TG (tantalum, tin, tungsten, gold) involving human rights infringement, underage labor, and environmental destruction, are produced in 10 African countries including the Democratic Republic of the Congo, the Central African Republic, South Sudan, Uganda, Rwanda, Burundi, Tanzania, Zambia, and Angola. The characteristics of each mineral are as follows.

① Tantalum, Symbol of element: Ta

Tantalums are widely used in electric and electronic products that require high stability in an extreme environment. This is mostly used for precision alloy with electronic components that are installed in electronic products, automobile, and aerospace products.

② Tin, Symbol of element: Sn

Tin is mostly used for soldering, which is necessary for most of our electronic products and components. Tin is mostly produced in some Central African countries, China, and Indonesia.

③ Tungsten, Symbol of element: W

Due to its high fusion point and intensity, Tungsten is widely used in various industries including automobile, aerospace, and electronics. Most of the supply originate from China, while some are also produced in Central Africa.

④ Gold, Symbol of element: Au

Gold has superior malleability, ductility, thermal conductivity, and electrical conductivity, rendering it a widely used material in IT, semiconductors, medical devices, among other products and as a precious metal, also used for decorations and accessories. Known for its high value, convenience in processing and transporting, ease of convertibility, and anonymous transaction, the supply chain around gold requires additional scrutiny. In addition, gold has been frequently used in funding criminal activities, including terrorism. As such, RMAP from RMI outlines an independent standard that provides due diligence guidelines for detecting, evaluating, and solving related risks.

Cobalt, Symbol of element: Co

Cobalt is mostly used in lithium-ion batteries required in electric cars, cellphones, and laptops. It is also frequently used in adhesive joints of electric and electronic products for its outstanding conductivity. As the largest cobalt producer, the Democratic Republic of the Congo takes up 50% of cobalt deposits. While cobalt is mostly mass produced through machine equipment, there have been concerns regarding underage workers and safety of work environment.

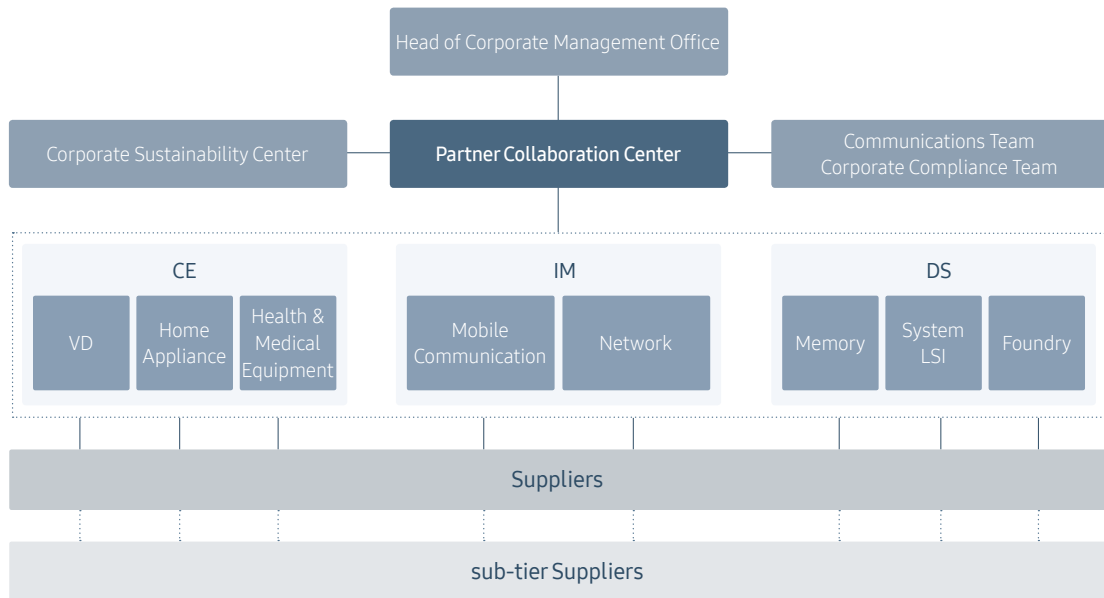
Target Product Group

Our standards apply to all materials and components used in products manufactured and commercially produced, regardless of where the products are sold.

Business division	Key products
CE (Consumer Electronics)	TVs, Monitor, Refrigerator, Washer, Air conditioners, Ultrasound System, etc.
IM (IT & Mobile communications)	HHP, network systems, PC, etc.
DS (Device Solutions)	DRAM, SSDs, NAND Flash, mobile APs, image sensors, etc.

Management Organization

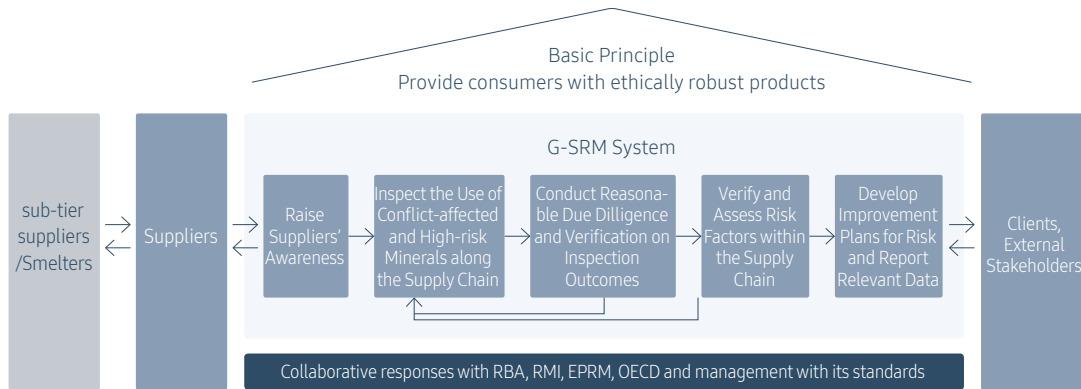
Risks related to responsible minerals sourcing are managed by the Partner Collaboration Center under the direction of the Head of Corporate Management Office. In addition, the responsible minerals personnel in each business division manages the conflict mineral risks in their respective business division as well as the risks from their suppliers. The Center also cooperates with relevant bodies within the company-wide risk management system, including the Corporate Sustainability Management Office, the Communications Team, and the Corporate Compliance Team.



Responsible Minerals Management Process

Management System

We operate our minerals management system in accordance with the OECD Due Diligence Guidance. Furthermore, we proactively share our findings with various stakeholders, including our customers, investors, government agencies, and NGOs, among others. We also partner with global organizations to coordinate responses against conflict minerals to ensure that responsible sourcing is practiced globally.



Management Procedure

We ensure that minerals used in our products have been mined ethically in accordance with the OECD Due Diligence Guidance and require our suppliers to adopt the same standards.

Samsung Electronics' Responsible Minerals Management Process

Step 1: Raise Suppliers' Awareness

- Require all first-tier suppliers of their commitment to ban the use of conflict-affected and high-risk minerals
- Distribute the conflict-affected areas and high-risk minerals management guide, and support working-level training
- Request that lower-tier suppliers expand their policies to ban the use of conflict-affected and high-risk minerals, and to source ethically and responsibly

Step 2: Inspect the Use of Conflict-Affected and High-Risk Minerals in the Supply Chain

- Monitor data on all first-tier suppliers' use of conflict-affected and high-risk minerals, as well as smelters' use of such minerals in the supply chain

Step 3: Conduct Systematic Due Diligence and Verify Outcomes of Inspections

- Conduct on-site inspections for verification of data submitted by suppliers

Step 4: Verify and Assess Risk Factors Within the Supply Chain

- Categorize suppliers into four rating groups based on inspection results

Step 5: Develop Improvement Plans for Risks and Report Relevant Data

- Restrict transactions with suppliers who work with any smelters not certified by third party organizations
- Recommend smelters in the supply chain to become third-party certified

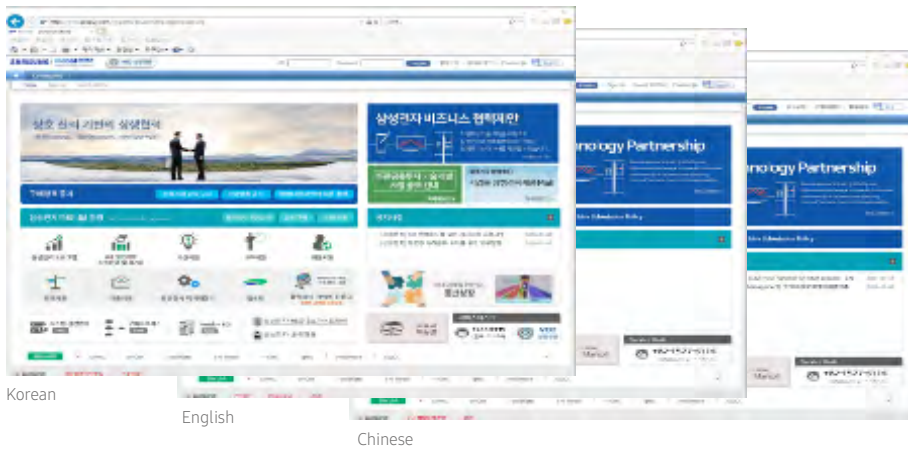
* As global industry practice standards for cobalt mining are still being developed, Samsung Electronics utilizes the reporting form provided by RMI. As we move forward, we will continue to strengthen our management system based on the responsible mineral certification processes.

Samsung Electronics' Activities by Stage

Step 1: Raise Suppliers' Awareness

We require all our suppliers to pledge in writing not to use minerals that contribute to human rights violations and environmental problems in conflict-affected and high-risk areas, and monitor their practices through an integrated system.

Samsung Electronics' Global Supplier Relationship Management (G-SRM) System



[click for URL G-SRM website](#)

In line with our mineral sourcing policy, we require our suppliers to extend the ban on the use of minerals from conflict-affected and high-risk areas to their own suppliers.

Declaration of non-use (DNU) of conflict minerals for suppliers

광물 및 인접 분쟁지역 광물 채사용 준수 선언서

본사는 공급망 전반에 걸쳐 그 인접지역에서 무장단체의 영향력 아래 채굴 및 추출되는 분쟁광물(인연부, 주석, 텅스텐, 금)의 사용을 금지하는 본사의 정책에 호응하여 위 언급된 광물을 사용하지 않겠다고, 본사의 국내외 법인, 분장 등에 걸쳐 당면해서 확약합니다.

나아가, 본사의 정책이 당면에도 이상과 재발을 방지하여 본사의 본정책을 정책의 확대 적용할 수 있도록 부탁드립니다.

년 월 일

(인) (성) (직책) (인명/서명) Name 기명 날인 혹은 Signature

삼성전자 주식회사 귀중

Korean

Declaration of non-use of conflict minerals

We, the undersigned, are fully supporting Samsung Electronics' policy, that Samsung Electronics' strict prohibition on the use of minerals in relation to the conflict-affected and high-risk areas and the minerals that are sourced from these areas in the conflict-affected and high-risk areas. We are committed to our responsibility to ensure that we do not use Samsung Electronics' Supplier Relationship Management (SRM) system to source minerals from conflict-affected and high-risk areas.

In addition, Samsung Electronics' request that the prohibition be extended to our suppliers and that the Samsung Electronics' policy may also be applied to our suppliers and that we will extend the Samsung Electronics' policy to our suppliers.

년 월 일

Customer name: _____
 Minerals: _____
 Representative: Name / Signature _____

English

关于遵守不使用冲突及高风险地区矿产政策的声明

三星电子株式会社，我们完全支持三星电子的禁止在冲突及高风险地区使用矿产的政策。我们承诺，我们将遵守三星电子的矿产政策，并不向三星电子供应链内的任何子公司、工厂采购冲突及高风险地区的矿产。我们将向三星电子供应链内的所有供应商推广此政策。

三星电子株式会社，我们完全支持三星电子的禁止在冲突及高风险地区使用矿产的政策。我们承诺，我们将遵守三星电子的矿产政策，并不向三星电子供应链内的任何子公司、工厂采购冲突及高风险地区的矿产。我们将向三星电子供应链内的所有供应商推广此政策。

年 月 日

(公司名称) (姓名) (职位/职务) (姓名、职务)

Chinese

As part of our conflict-free minerals management, we provide both online and offline training for staff responsible for global procurement. Conflict mineral management online training sessions are mandatory for our employees, and over the past five years, around 2,188 procurement employees have completed the training.

We also focus on training and guidance for our suppliers. Our Conflict Minerals Management Guidance includes a conflict minerals policy we share with our suppliers. Over the past five years, we provided training for a total of 2,281 procurement staff at supplier companies. The sessions cover our conflict minerals policy, instructions on using the conflict minerals management system, and the process required to become an RMAP-certified smelter. In addition, we offer separate training sessions for suppliers who were found to have vulnerabilities during on-site assessments in order to assist them in closing the gaps.

Conflict minerals training completed (2016–2020)

(persons)

	Total	2016	2017	2018	2019	2020
Total	4,469	735	1,836	864	594	440
Samsung Electronics	2,188	480	717	652	212	127
Suppliers	2,281	255	1,119	212	382	313

Step 2: Inspect the Use of Conflict-affected and High-risk Areas within the Supply Chain

Using the Conflict Minerals Reporting Template (CMRT) and the Cobalt Reporting Template (CRT), we collect data on conflict minerals, cobalt, and other information on smelters within the supply chain from the worksites of all suppliers with which we conduct businesses. In addition, we require suppliers to extend the ban on conflict minerals to their own suppliers, in accordance with our conflict minerals policy.

Status of smelters within the supply chain (2016-2020)

(number of smelters)

	2016	2017	2018	2019	2020
Tantalum	46	42	40	40	38
Tin	75	71	73	76	53
Tungsten	38	41	41	41	42
Gold	95	101	104	104	107
Cobalt	-	-	-	30	27

Step 3: Conduct Systematic Due Diligence and Verify Outcomes of Inspections

After an internal review of data submitted by all suppliers, in 2020, we conducted on-site audits on 427 global suppliers that required follow-up inspection based on data submitted to verify both the reliability of their data and implementation of conflict-mineral-related policies.

In 2020, we adapted on-site audits to non-contact audits due to COVID-19 restrictions and expanded our inspection scope from 225 suppliers in 2019 to 427 suppliers in 2020 to minimize the risk of decreased reliability due to change in audit format.

No. of on-site supplier audits (2016-2020)						(number of on-site audits)
Year	2016	2017	2018	2019	2020	
On-site audits	133	252	244	225	427	

* In 2020, due to COVID-19, inspections were conducted via evidential data review

Step 5: Develop Improvement Plans for Risks and Report Relevant Data

We require all suppliers to pledge not to use conflict minerals. Using the G-SRM system, we eliminate any materials containing minerals from non-RMAP-certified sources from the supply chain.

We also periodically monitor the RMI homepage for any changes in the RMAP list of certified smelters and reflect any updates in G-SRM. We suspend contracts with uncertified smelters and immediately share the information with relevant suppliers and business divisions in order to incentivize and support the needed improvements. In 2020, we discovered two uncertified smelters and immediately shared the information with 318 suppliers, requesting a contract suspension.

Smelters removed from the RMAP-conformance list in 2020

Minerals	Reference no.	Identified Smelter
Gold	CID000711	Heraeus Precious Metals GmbH & Co.KG
Gold	CID001977	Umicore Brasil Ltda.

We have established various communication channels and provide around-the-clock support to assist suppliers in resolving their feedback related to conflict minerals issues. In 2020, the company responded to a total of 492 cases.

Number of assisted cases in 2020 (number of cases)

	Total	Survey	Operating system	Smelter	Data transmission	Letter of consent	Others
Total	492	268	165	10	12	3	34
Conflict minerals	482	259	165	10	12	2	34
Cobalt	10	9	-	-	-	1	-

We verify the presence of any conflict minerals in our products and the origins of minerals, using information on smelters submitted by suppliers. If the country of origin is uncertain, or if the smelters have not been certified by RMAP, we investigate whether conflict minerals have been used and requests that such smelters obtain RMAP certification. In 2020, all suppliers source minerals from RMAP-certified smelters.

Conflict minerals related RMAP certification of smelters in the supply chain (number of cases as of 2020)

	Total No. of smelters	Tantalum	Tin	Tungsten	Gold
No. of smelter	240	38	53	42	107
Rate of RMAP certification	100%	100%	100%	100%	100%

* For cobalt smelters, we conduct annual on-site inspections and work to obtain RMAP certifications. In a joint effort with RMI, we are pushing to expand RMAP certifications to more smelters.

We disclose the relevant information in a transparent manner regarding conflict minerals and responsible mineral sourcing every year through our Sustainability Management Report, our homepage, and the Responsible Minerals Report. In addition, we actively respond to requests from stakeholders regarding this matter as well.

External inquiries regarding suppliers and responsible mineral sourcing (2016-2020)

(number of cases as of 2020)

	2016	2017	2018	2019	2020
Customer	79	91	85	190	242
NGO/Rating Agency	6	10	9	17	11

Through prior consultation with suppliers, we have received consents to provide both the public and the company's stakeholders the information regarding the use of conflict minerals.

Major Cooperative Activities with External Parties

To effectively operate responsible minerals sourcing policies and address related issues, Samsung Electronics works with companies in the same industry, and actively gathers insights from relevant stakeholders. We also engage in a variety of initiatives, including social contribution activities and private-public partnership programs, to seek fundamental solutions for issues related to human rights and environmental degradation.

Responsible Minerals Initiative (RMI)

The RMI is a coalition of global companies dedicated to addressing issues related to the sourcing of minerals from conflict-affected and high-risk areas. As a member of the RMI, Samsung Electronics strives to identify the origins of minerals that are circulated throughout the global supply chain. To this end, we have developed the Conflict Minerals Reporting Template (CMRT) and the Cobalt Reporting Template (CRT) to survey our suppliers and enhance the collection and disclosure of information on smelters in the supply system. Through the Responsible Minerals Assurance Program (RMAP), a responsible-mineral-sourcing validation program, we encourage smelters that have been validated as conflict-free to undergo independent third-party certification.



Moreover, as a RMI Steering Committee Member, we actively participate in responding against conflicts and conflict minerals based on RMI standards.

European Partnership for Responsible Minerals (EPRM)

The EPRM is a multi-stakeholder partnership created in May of 2016 under the EU through cooperation between the private sector, civil society, and governments to enhance the transparency of supply chains dealing with conflict minerals and responsible minerals. We joined EPRM in December 2018 as part of our commitment to complying with regulations on conflict minerals and responsible minerals sourcing, and we seek to our part alongside our industry partners. With the support of global governments and private companies, we continue to advance a variety of research initiatives, which includes investigating and suggesting solutions to human rights issues in conflict-affected areas such as the Democratic Republic of the Congo.



Industry Cooperation Project for Sustainable Cobalt Mining (Cobalt for Development)

To contribute to the sustainable development of cobalt mining in the Democratic Republic of the Congo, we joined hands with Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Samsung SDI, the BMW Group, and BASF to initiate a pilot project called Cobalt for Development in 2019. The project aims to improve the labor conditions of small-scale cobalt mining and the living conditions of the surrounding communities.

In 2020, we built schools for the children in the community, and provided agricultural and financial education to 2,000 local residents.

[click for URL](#) [Related article](#)

"Cobalt for Development" Project Started Trainings for Mining Cooperatives in Kolwezi, Democratic Republic of Congo

November 10, 2020

Trainings for twelve artisanal mining cooperatives involve more than 1,000 miners. Community activities have already reached more than 6,000 people. Volkswagen joined cross-industry initiative of BMW, BASF, Samsung SDI and Samsung Electronics.

The cross-industry initiative "Cobalt for Development" has started trainings for twelve artisanal mining cooperatives in Kolwezi, Democratic Republic of Congo (DRC). The training covers major environmental, social and governance aspects for responsible mining operations. The initiative is a joint effort of Volkswagen, BASF, Samsung SDI and Samsung Electronics. The initiative is a joint effort of Volkswagen, BASF, Samsung SDI and Samsung Electronics. The initiative is a joint effort of Volkswagen, BASF, Samsung SDI and Samsung Electronics.

In 2019, the project began training for twelve artisanal mining cooperatives in Kolwezi, Democratic Republic of Congo (DRC). The training covers major environmental, social and governance aspects for responsible mining operations. The initiative is a joint effort of Volkswagen, BASF, Samsung SDI and Samsung Electronics.

During additional income opportunities for families in artisanal mining areas will reduce the dependence on their children contributing to family income and enable them to attend school. The project has also been carrying out various community activities in the area and neighboring villages with the partner. The Responsible Minerals Initiative (RMI) is a coalition of global companies dedicated to addressing issues related to the sourcing of minerals from conflict-affected and high-risk areas.

When the partners are not trained to operate artisanal mines, it is planned to host an open public site under which could be responsible artisanal mining could be viable. The project has also been carrying out various community activities in the area and neighboring villages with the partner. The Responsible Minerals Initiative (RMI) is a coalition of global companies dedicated to addressing issues related to the sourcing of minerals from conflict-affected and high-risk areas.



Encouraging Korean Smelters to Participate in RMAP Certification

We have strengthened our waste-management standards to ensure that wastes generated at manufacturing sites in South Korea are now transferred only to RMAP-certified smelters, and we are also encouraging RMAP participation from local urban mining industry – smelters and refineries that recover metal substances from collected e-wastes.

Mica Mining: Responding to Issues in India and Madagascar

In light of the recent incidents of death and injuries in the mica mines in India and Madagascar, which has highlighted the dangers of illegal working environments and underage workers, we provide suppliers with detailed information on how to address such risks effectively. Going forward, we will manage these issues based on the standard process provided by RMI.

Key Achievements in Responsible Minerals Sourcing in 2020

Category			No.
Conflict minerals	CMRT survey	No. of smelters	240
		Tantalum	38
		Tin	53
		Tungsten	42
		Gold	107
	On-site assessments		427
Cobalt	CRT survey	No. of smelters	30
Training		Participants	440
		Samsung Electronics	127
		Suppliers	313
External requests (customers)		No. of companies	152
		No. of requests	242
		No. of models	488

3TG mineral (Tantalum, Tin, Tungsten, Gold)-sourcing-countries (132 in total)

Angola, Argentina, Armenia, Australia, Austria, Bangladesh, Belarus, Belgium, Benin, Bolivia (Plurinational State of), Botswana, Brazil, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cyprus, Czech Republic, Democratic Republic of the Congo, Denmark, Ecuador, Egypt, El Salvador, Estonia, Ethiopia, Finland, France, Gabon, Gambia, Georgia, Germany, Ghana, Greece, Guinea, Guyana, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Ivory Coast, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Macau, Madagascar, Malaysia, Mali, Malta, Mauritius, Mexico, Mongolia, Morocco, Mozambique, Myanmar, Namibia, Netherlands, New Caledonia, New Zealand, Nicaragua, Nigeria, Norway, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Poland, Portugal, Puerto Rico, Qatar, Republic of Korea, Romania, Russian Federation, Rwanda, San Marino, Saudi Arabia, Senegal, Serbia, Sierra Leone, Singapore, Slovakia, Slovenia, Somalia, South Africa, Spain, Sudan, Suriname, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Trinidad and Tobago, Tunisia, Turkey, UAE, Uganda, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zimbabwe

Smelter and Refiner List in Samsung Electronics' supply chain(as of 2020)

3TG Smelter and Refiner List

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
1	Gold	CID000015	Advanced Chemical Company	USA	Conformant	LR, R/S	N/A
2	Gold	CID000019	Aida Chemical Industries Co., Ltd.	Japan	Conformant	R/S	N/A
3	Gold	CID000035	Allgemeine Gold-und Silberscheideanstalt A.G.	Germany	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
4	Gold	CID000041	Almalyk Mining and Metallurgical Complex (AMMC)	Uzbekistan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
5	Gold	CID000058	AngloGold Ashanti Corrego do Sitio Mineracao	Brazil	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
6	Gold	CID000077	Argor-Heraeus S.A.	Switzerland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
7	Gold	CID000082	Asahi Pretec Corp.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
8	Gold	CID000090	Asaka Riken Co., Ltd.	Japan	Conformant	R/S	L1, R/S
9	Gold	CID000113	Aurubis AG	Germany	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
10	Gold	CID000128	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	Philippines	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
11	Gold	CID000157	Boliden AB	Sweden	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
12	Gold	CID000176	C. Hafner GmbH + Co. KG	Germany	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
13	Gold	CID000185	CCR Refinery - Glencore Canada Corporation	Canada	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
14	Gold	CID000189	Cendres + Metaux S.A.	Switzerland	Conformant	See aggregated data below for RJC Sourcing	N/A
15	Gold	CID000233	Chimet S.p.A.	Italy	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
16	Gold	CID000264	Chugai Mining	Japan	Conformant	R/S, LR	N/A
17	Gold	CID000359	DSC (Do Sung Corporation)	Korea	Conformant	R/S	N/A
18	Gold	CID000362	DODUCO Contacts and Refining GmbH	Germany	Conformant	R/S	See aggregated data below for LBMA Good Delivery Sourcing
19	Gold	CID000401	Dowa	Japan	Conformant	L1, R/S	N/A
20	Gold	CID000425	Eco-System Recycling Co., Ltd. East Plant	Japan	Conformant	R/S	See aggregated data below for LBMA Good Delivery Sourcing
21	Gold	CID000493	OJSC Novosibirsk Refinery	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
22	Gold	CID000689	LT Metal Ltd.	Korea	Conformant	L1, R/S	N/A
23	Gold	CID000694	Heimerle + Meule GmbH	Germany	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
24	Gold	CID000707	Heraeus Metals Hong Kong Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
25	Gold	CID000801	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
26	Gold	CID000807	Ishifuku Metal Industry Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
27	Gold	CID000814	Istanbul Gold Refinery	Turkey	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
28	Gold	CID000823	Japan Mint	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
29	Gold	CID000855	Jiangxi Copper Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
30	Gold	CID000920	Asahi Refining USA Inc.	USA	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
31	Gold	CID000924	Asahi Refining Canada Ltd.	Canada	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
32	Gold	CID000929	JSC Uralsmet	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
33	Gold	CID000937	JX Nippon Mining & Metals Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
34	Gold	CID000957	Kazzinc	Kazakhstan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
35	Gold	CID000969	Kennecott Utah Copper LLC	USA	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
36	Gold	CID000981	Kojima Chemicals Co., Ltd.	Japan	Conformant	L1, R/S	L1, R/S
37	Gold	CID001029	Kyrgyzalyn JSC	Kyrgyzstan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
38	Gold	CID001078	LS-NIKKO Copper Inc.	Korea	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
39	Gold	CID001113	Materion	USA	Conformant	L1, R/S	See aggregated data below for LBMA Good Delivery Sourcing
40	Gold	CID001119	Matsuda Sangyo Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
41	Gold	CID001147	Metalor Technologies (Suzhou) Ltd.	China	Conformant	See aggregated data below for RJC Sourcing	N/A
42	Gold	CID001149	Metalor Technologies (Hong Kong) Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
43	Gold	CID001152	Metalor Technologies (Singapore) Pte., Ltd.	Singapore	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
44	Gold	CID001153	Metalor Technologies S.A.	Switzerland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
45	Gold	CID001157	Metalor USA Refining Corporation	USA	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
46	Gold	CID001161	Metalurgica Met-Mex Penoles S.A. De C.V.	Mexico	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
47	Gold	CID001188	Mitsubishi Materials Corporation	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
48	Gold	CID001193	Mitsui Mining and Smelting Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
49	Gold	CID001204	Moscow Special Alloys Processing Plant	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
50	Gold	CID001220	Nadir Metal Rafineri San. Ve Tic. A.S.	Turkey	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
51	Gold	CID001236	Navoi Mining and Metallurgical Combinat	Uzbekistan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
52	Gold	CID001259	Nihon Material Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
53	Gold	CID001325	Ohura Precious Metal Industry Co., Ltd.	Japan	Conformant	R/S	See aggregated data below for LBMA Good Delivery Sourcing
54	Gold	CID001326	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
55	Gold	CID001352	PAMP S.A.	Switzerland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
56	Gold	CID001386	Prioksky Plant of Non-Ferrous Metals	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
57	Gold	CID001397	PT Aneka Tambang (Persero) Tbk	Indonesia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
58	Gold	CID001498	PX Precinox S.A.	Switzerland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
59	Gold	CID001512	Rand Refinery (Pty) Ltd.	South Africa	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
60	Gold	CID001534	Royal Canadian Mint	Canada	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
61	Gold	CID001555	Samduck Precious Metals	Korea	Conformant	R/S	N/A
62	Gold	CID001585	SEMPSA Joyeria Plateria S.A.	Spain	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
63	Gold	CID001622	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
64	Gold	CID001736	Sichuan Tianze Precious Metals Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
65	Gold	CID001756	SOE Shyolkovsky Factory of Secondary Precious Metals	Russia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
66	Gold	CID001761	Solar Applied Materials Technology Corp.	Taiwan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
67	Gold	CID001798	Sumitomo Metal Mining Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
68	Gold	CID001875	Tanaka Kikinzoku Kogyo K.K.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
69	Gold	CID001916	The Refinery of Shandong Gold Mining Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
70	Gold	CID001938	Tokuriki Honten Co., Ltd.	Japan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
71	Gold	CID001955	Torecom	Korea	Conformant	R/S	N/A
72	Gold	CID001980	Umicore S.A. Business Unit Precious Metals Refining	Belgium	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
73	Gold	CID001993	United Precious Metal Refining, Inc.	USA	Conformant	LR, R/S	See aggregated data below for LBMA Good Delivery Sourcing
74	Gold	CID002003	Valcambi S.A.	Switzerland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing and RJC Sourcing	N/A
75	Gold	CID002030	Western Australian Mint (T/a The Perth Mint)	Australia	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
76	Gold	CID002100	Yamakin Co., Ltd.	Japan	Conformant	L1, R/S	L1, R/S
77	Gold	CID002129	Yokohama Metal Co., Ltd.	Japan	Conformant	R/S	N/A
78	Gold	CID002224	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
79	Gold	CID002243	Gold Refinery of Zijin Mining Group Co., Ltd.	China	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
80	Gold	CID002290	SAFINA A.S.	Czechia	Conformant	R/S	LR, R/S

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
81	Gold	CID002314	Umicore Precious Metals Thailand	Thailand	Conformant	See aggregated data below for RJC Sourcing	N/A
82	Gold	CID002459	Geib Refining Corporation	USA	Conformant	R/S	N/A
83	Gold	CID002509	MMTC-PAMP India Pvt., Ltd.	India	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
84	Gold	CID002511	KGHM Polska Miedz Spolka Akcyjna	Poland	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
85	Gold	CID002516	Singway Technology Co., Ltd.	Taiwan	Conformant	L1, R/S	N/A
86	Gold	CID002560	Al Etihad Gold Refinery DMCC	UAE	Conformant	HR, R/S	N/A
87	Gold	CID002561	Emirates Gold DMCC	UAE	Conformant	LR, CC, R/S	N/A
88	Gold	CID002580	T.C.A S.p.A	Italy	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
89	Gold	CID002582	REMONDIS PMR B.V.	Netherland	Conformant	R/S	LR, R/S
90	Gold	CID002605	Korea Zinc Co., Ltd.	Korea	Conformant	L1	N/A
91	Gold	CID002606	Marsam Metals	Brazil	Conformant	LR, R/S	See aggregated data below for LBMA Good Delivery Sourcing
92	Gold	CID002615	TOO Tau-Ken-Altyn	Kazakhstan	Conformant	See aggregated data below for LBMA Good Delivery Sourcing	N/A
93	Gold	CID002761	SAAMP	France	Conformant	See aggregated data below for RJC mined gold	N/A
94	Gold	CID002762	L'Orfebre S.A.	Andorra	Conformant	L1, CC, R/S	N/A
95	Gold	CID002763	8853 S.p.A.	Italy	Conformant	See aggregated data below for RJC Sourcing	N/A
96	Gold	CID002765	Italpreziosi	Italy	Conformant	See aggregated data below for RJC Sourcing	N/A
97	Gold	CID002777	SAXONIA Edelmetalle GmbH	Germany	Conformant	L1, R/S	L1, R/S
98	Gold	CID002778	WIELAND Edelmetalle GmbH	Germany	Conformant	L1, R/S	L1, R/S
99	Gold	CID002779	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	Austria	Conformant	See aggregated data below for RJC Sourcing	N/A
100	Gold	CID002850	AU Traders and Refiners	South Africa	Conformant	See aggregated data below for RJC Sourcing	N/A
101	Gold	CID002863	Bangalore Refinery	India	Conformant	LR, R/S	N/A
102	Gold	CID002918	SungEel HiMetal Co., Ltd.	Korea	Conformant	R/S	N/A
103	Gold	CID002919	Planta Recuperadora de Metales SpA	Chile	Conformant	LR	N/A
104	Gold	CID002973	Safimet S.p.A	Italy	Conformant	See aggregated data below for RJC mined gold	N/A
105	Gold	CID003195	TSK Pretech	Korea	Conformant	R/S	N/A
106	Gold	CID003424	Eco-System Recycling Co., Ltd. North Plant	Japan	Conformant	R/S	N/A
107	Gold	CID003425	Eco-System Recycling Co., Ltd. West Plant	Japan	Conformant	R/S	N/A
108	Tantalum	CID000092	Asaka Riken Co., Ltd.	Japan	Conformant	R/S, CC, HR	N/A
109	Tantalum	CID000211	Changsha South Tantalum Niobium Co., Ltd.	China	Conformant	L1, R/S	L1, L2, CC, R/S
110	Tantalum	CID000291	Guangdong Rising Rare Metals-EO Materials Ltd.	China	Conformant	L1	N/A
111	Tantalum	CID000456	Exotech Inc.	USA	Conformant	LR, R/S	LR, CC, DRC, R/S
112	Tantalum	CID000460	F&X Electro-Materials Ltd.	China	Conformant	LR, HR, DRC, CC	LR, CC, DRC, R/S
113	Tantalum	CID000616	Guangdong Zhiyuan New Material Co., Ltd.	China	Conformant	LR, HR, DRC, CC, R/S	LR, HR, CC, DRC, R/S
114	Tantalum	CID000914	Jiujiang JinXin Nonferrous Metals Co., Ltd.	China	Conformant	LR	N/A
115	Tantalum	CID000917	Jiujiang Tanbre Co., Ltd.	China	Conformant	L1, L2, R/S	N/A
116	Tantalum	CID001076	LSM Brasil S.A.	Brazil	Conformant	LR	N/A
117	Tantalum	CID001163	Metallurgical Products India Pvt., Ltd.	India	Conformant	L1, L2, R/S	N/A
118	Tantalum	CID001175	Mineracao Taboca S.A.	Brazil	Conformant	L1	N/A
119	Tantalum	CID001192	Mitsui Mining and Smelting Co., Ltd.	Japan	Conformant	L1, R/S	L1

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
120	Tantalum	CID001200	NPM Silmet AS	Estonia	Conformant	HR, DRC, CC, LR	LR
121	Tantalum	CID001277	Ningxia Orient Tantalum Industry Co., Ltd.	China	Conformant	L1, CC, R/S	L1, CC, DRC
122	Tantalum	CID001508	QuantumClean	USA	Conformant	R/S	N/A
123	Tantalum	CID001522	Yanling Jincheng Tantalum & Niobium Co., Ltd.	China	Conformant	L1, R/S	L1, CC, DRC, R/S
124	Tantalum	CID001769	Solikamsk Magnesium Works OAO	Russia	Conformant	L1	N/A
125	Tantalum	CID001869	Taki Chemical Co., Ltd.	Japan	Conformant	R/S, CC, HR	N/A
126	Tantalum	CID001891	Telex Metals	USA	Conformant	LR, R/S	LR
127	Tantalum	CID001969	Ulba Metallurgical Plant JSC	Kazakhstan	Conformant	LR, HR, CC, DRC, R/S	LR
128	Tantalum	CID002492	Hengyang King Xing Lifeng New Materials Co., Ltd.	China	Conformant	LR, HR, CC	N/A
129	Tantalum	CID002504	D Block Metals, LLC	USA	Conformant	LR, R/S	LR, CC, DRC, R/S
130	Tantalum	CID002505	FIR Metals & Resource Ltd.	China	Conformant	LR, R/S	L1, L2, CC, DRC, R/S
131	Tantalum	CID002506	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	China	Conformant	LR	N/A
132	Tantalum	CID002508	XinXing HaoRong Electronic Material Co., Ltd.	China	Conformant	L1, R/S	L1, L2, DRC
133	Tantalum	CID002512	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	China	Conformant	L1	N/A
134	Tantalum	CID002539	KEMET Blue Metals	Mexico	Conformant	LR, R/S	L1, CC, R/S
135	Tantalum	CID002544	H.C. Starck Co., Ltd.	Thailand	Conformant	LR, CC, DRC, HR	LR, HR, CC, DRC, R/S
136	Tantalum	CID002545	H.C. Starck Tantalum and Niobium GmbH	Germany	Conformant	LR, CC, DRC, HR, R/S	LR, CC, DRC, HR, R/S
137	Tantalum	CID002547	H.C. Starck Hermsdorf GmbH	Germany	Conformant	LR, R/S	HR, DRC, CC, LR, R/S
138	Tantalum	CID002548	H.C. Starck Inc.	USA	Conformant	LR, R/S	LR, HR, CC, DRC, R/S
139	Tantalum	CID002549	H.C. Starck Ltd.	Japan	Conformant	LR, R/S	LR, CC, DRC, R/S
140	Tantalum	CID002550	H.C. Starck Smelting GmbH & Co. KG	Germany	Conformant	LR, CC, DRC, HR, R/S	LR, CC, DRC, HR, R/S
141	Tantalum	CID002557	Global Advanced Metals Boyertown	USA	Conformant	LR, HR, CC, DRC, R/S	LR, CC, DRC, R/S
142	Tantalum	CID002558	Global Advanced Metals Aizu	Japan	Conformant	LR	LR, HR, CC, DRC, R/S
143	Tantalum	CID002707	Resind Industria e Comercio Ltda.	Brazil	Conformant	LR	LR
144	Tantalum	CID002842	Jiangxi Tuohong New Raw Material	China	Conformant	L1	L1, CC, DRC
145	Tantalum	CID002847	Power Resources Ltd.	Macedonia	Conformant	CC	N/A
146	Tin	CID000228	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	China	Conformant	L1, R/S	L1
147	Tin	CID000292	Alpha	USA	Conformant	L1, R/S	L1, CC, DRC, R/S
148	Tin	CID000402	Dowa	Japan	Conformant	R/S	N/A
149	Tin	CID000438	EM Vinto	Bolivia	Conformant	L1	N/A
150	Tin	CID000468	Fenix Metals	Poland	Conformant	L1	N/A
151	Tin	CID000538	Geju Non-Ferrous Metal Processing Co., Ltd.	China	Conformant	L1	N/A
152	Tin	CID000555	Geju Zili Mining And Metallurgy Co., Ltd.	China	Conformant	L1	N/A
153	Tin	CID000760	Huichang Jinshunda Tin Co., Ltd.	China	Conformant	L1	N/A
154	Tin	CID000942	Geju Kai Meng Industry and Trade LLC	China	Conformant	L1	N/A
155	Tin	CID001070	China Tin Group Co., Ltd.	China	Conformant	L1	N/A
156	Tin	CID001105	Malaysia Smelting Corporation (MSC)	Malaysia	Conformant	L1, CC, DRC, R/S	L1, R/S
157	Tin	CID001142	Metallic Resources, Inc.	USA	Conformant	LR, R/S	LR
158	Tin	CID001173	Mineracao Taboca S.A.	Brazil	Conformant	L1	N/A
159	Tin	CID001182	Minsur	Perú	Conformant	L1	N/A
160	Tin	CID001191	Mitsubishi Materials Corporation	Japan	Conformant	R/S	N/A
161	Tin	CID001231	Jiangxi New Nanshan Technology Ltd.	China	Conformant	L1, R/S	N/A
162	Tin	CID001314	O.M. Manufacturing (Thailand) Co., Ltd.	Thailand	Conformant	R/S	N/A
163	Tin	CID001337	Operaciones Metalurgicas S.A.	Bolivia	Conformant	LR	N/A
164	Tin	CID001399	PT Artha Cipta Langgeng	Indonesia	Conformant	LR	N/A
165	Tin	CID001406	PT Babel Surya Alam Lestari	Indonesia	Conformant	LR	N/A
166	Tin	CID001453	PT Mitra Stania Prima	Indonesia	Conformant	LR	N/A
167	Tin	CID001458	PT Prima Timah Utama	Indonesia	Conformant	LR	N/A
168	Tin	CID001460	PT Refined Bangka Tin	Indonesia	Conformant	LR	L1

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
169	Tin	CID001477	PT Timah Tbk Kundur	Indonesia	Conformant	LR	N/A
170	Tin	CID001482	PT Timah Tbk Mentok	Indonesia	Conformant	LR	N/A
171	Tin	CID001539	Rui Da Hung	Taiwan	Conformant	L1, R/S	L1
172	Tin	CID001758	Soft Metais Ltda.	Brazil	Conformant	L1, R/S	L1
173	Tin	CID001898	Thaisarco	Thailand	Conformant	L1, CC, DRC, R/S	L1, CC, DRC, R/S
174	Tin	CID001908	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	China	Conformant	L1, R/S	L1, R/S
175	Tin	CID002036	White Solder Metalurgia e Mineracao Ltda.	Brazil	Conformant	L1	L1
176	Tin	CID002158	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	China	Conformant	L1	N/A
177	Tin	CID002180	Yunnan Tin Company Limited	China	Conformant	L1, R/S	L1, CC, DRC, R/S
178	Tin	CID002468	Magnu's Minerai's Metais e Ligas Ltda.	Brazil	Conformant	L1, R/S	N/A
179	Tin	CID002500	Melt Metais e Ligas S.A.	Brazil	Conformant	L1	N/A
180	Tin	CID002503	PT ATD Makmur Mandiri Jaya	Indonesia	Conformant	LR	N/A
181	Tin	CID002517	O.M. Manufacturing Philippines, Inc.	Philippines	Conformant	R/S	N/A
182	Tin	CID002593	PT Rajehan Ariq	Indonesia	Conformant	LR	N/A
183	Tin	CID002706	Resind Industria e Comercio Ltda.	Brazil	Conformant	LR	LR
184	Tin	CID002773	Metallo Belgium N.V.	Belgium	Conformant	LR, R/S	LR, HR, CC, DRC, R/S
185	Tin	CID002774	Metallo Spain S.L.U.	Spain	Conformant	LR, R/S	LR, HR, CC, DRC, R/S
186	Tin	CID002834	Thai Nguyen Mining and Metallurgy Co., Ltd.	Viet Nam	Conformant	L1	N/A
187	Tin	CID002835	PT Menara Cipta Mulia	Indonesia	Conformant	LR	N/A
188	Tin	CID002844	HuiChang Hill Tin Industry Co., Ltd.	China	Conformant	L1	N/A
189	Tin	CID002848	Gejiu Fengming Metallurgy Chemical Plant	China	Conformant	L1	L1, R/S
190	Tin	CID002849	Guanyang Guida Nonferrous Metal Smelting Plant	China	Conformant	L1	L1, R/S
191	Tin	CID003116	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	China	Conformant	L1, R/S	N/A
192	Tin	CID003190	Chifeng Dajingzi Tin Industry Co., Ltd.	China	Conformant	L1, R/S	N/A
193	Tin	CID003205	PT Bangka Serumpun	Indonesia	Conformant	LR	N/A
194	Tin	CID003325	Tin Technology & Refining	USA	Conformant	LR, R/S	LR, CC, DRC, R/S
195	Tin	CID003379	Ma'anshan Weitai Tin Co., Ltd.	China	Conformant	R/S	N/A
196	Tin	CID003381	PT Rajawali Rimba Perkasa	Indonesia	Conformant	LR	N/A
197	Tin	CID003387	Luna Smelter, Ltd.	Rwanda	Conformant	CC, HR	N/A
198	Tin	CID003397	Yunnan Yunfan Non-ferrous Metals Co., Ltd.	China	Conformant	L1, R/S	N/A
199	Tungsten	CID000004	A.L.M.T. Corp.	Japan	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	L1, CC, R/S
200	Tungsten	CID000105	Kennametal Huntsville	USA	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	L1
201	Tungsten	CID000218	Guangdong Xianglu Tungsten Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
202	Tungsten	CID000258	Chongyi Zhangyuan Tungsten Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
203	Tungsten	CID000499	Fujian Jinxin Tungsten Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	L1, R/S
204	Tungsten	CID000568	Global Tungsten & Powders Corp	USA	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	L1, CC, R/S
205	Tungsten	CID000766	Hunan Chenzhou Mining Co., Ltd.	China	Conformant	L1	N/A
206	Tungsten	CID000769	Hunan Chunchang Nonferrous Metals Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
207	Tungsten	CID000825	Japan New Metals Co., Ltd.	Japan	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	L1, CC, DRC, R/S
208	Tungsten	CID000875	Ganzhou Huaxing Tungsten Products Co., Ltd.	China	Conformant	L1	N/A
209	Tungsten	CID000966	Kennametal Fallon	USA	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	L1, CC, R/S
210	Tungsten	CID001889	Tejing (Vietnam) Tungsten Co., Ltd.	Vietnam	Conformant	L1, R/S	N/A

No	Metal	ID	Smelter Name	Location	RMAP status	Direct Sourcing	Indirect Supplying Smelter Sourcing
211	Tungsten	CID002044	Wolfram Bergbau und Hutten AG	Austria	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	LR, CC, HR
212	Tungsten	CID002082	Xiamen Tungsten Co., Ltd.	China	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	LR, R/S, DRC, CC, HR
213	Tungsten	CID002315	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	China	Conformant	L1, R/S	N/A
214	Tungsten	CID002316	Jiangxi Yaosheng Tungsten Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
215	Tungsten	CID002317	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	China	Conformant	L1	N/A
216	Tungsten	CID002318	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	China	Conformant	LR	N/A
217	Tungsten	CID002319	Malipo Haiyu Tungsten Co., Ltd.	China	Conformant	L1	N/A
218	Tungsten	CID002320	Xiamen Tungsten (H.C.) Co., Ltd.	China	Conformant	R/S, DRC, CC and Mined (See aggregated data below for TI-CMC Sourcing)	LR, R/S
219	Tungsten	CID002321	Jiangxi Gan Bei Tungsten Co., Ltd.	China	Conformant	L1	N/A
220	Tungsten	CID002494	Ganzhou Seadragon W & Mo Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
221	Tungsten	CID002502	Asia Tungsten Products Vietnam Ltd.	Vietnam	Conformant	L1, CC, DRC	N/A
222	Tungsten	CID002513	Chenzhou Diamond Tungsten Products Co., Ltd.	China	Conformant	LR	N/A
223	Tungsten	CID002541	H.C. Starck Tungsten GmbH	Germany	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	N/A
224	Tungsten	CID002542	H.C. Starck Smelting GmbH & Co. KG	Germany	Conformant	R/S	L1, CC, R/S
225	Tungsten	CID002543	Masan Tungsten Chemical LLC (MTC)	Vietnam	Conformant	HR, CC, R/S	N/A
226	Tungsten	CID002551	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	China	Conformant	LR	N/A
227	Tungsten	CID002579	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
228	Tungsten	CID002589	Niagara Refining LLC	USA	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	N/A
229	Tungsten	CID002645	Ganzhou Haichuang Tungsten Co., Ltd.	China	Conformant	L1	N/A
230	Tungsten	CID002649	Hydrometallurg, JSC	Russia	Conformant	L1, R/S	L1
231	Tungsten	CID002724	Unecha Refractory metals plant	Russia	Conformant	L1, R/S	N/A
232	Tungsten	CID002827	Philippine Chuangxin Industrial Co., Inc.	Philippines	Conformant	R/S	N/A
233	Tungsten	CID002830	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	China	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
234	Tungsten	CID002833	ACL Metais Eireli	Brazil	Conformant	L1	N/A
235	Tungsten	CID002843	Woltech Korea Co., Ltd.	Korea	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
236	Tungsten	CID002845	Moliren Ltd.	Russia	Conformant	See aggregated data below for TI-CMC Sourcing	N/A
237	Tungsten	CID003182	Hunan Litian Tungsten Industry Co., Ltd.	China	Conformant	R/S and Mined (See aggregated data below for TI-CMC Sourcing)	N/A
238	Tungsten	CID003388	KGETS CO., LTD.	Korea	Conformant	R/S	N/A
239	Tungsten	CID003401	Fujian Ganmin RareMetal Co., Ltd.	China	Conformant	LR	N/A
240	Tungsten	CID003407	Lianyou Metals Co., Ltd.	Taiwan	Conformant	R/S	N/A

※ Source : <http://www.responsiblemineralsinitiative.org/rcoi-data/>

Data Key

L1	Level 1 countries/locations are not identified as conflict regions or plausible areas of smuggling or export from the DRC and its nine adjoining countries/locations.
L2	Level 2 countries/locations are known or plausible countries/locations for smuggling, export out of region or transit of materials containing tantalum, tin, tungsten or gold.
CC	Coverd countries/locations are the 9 countries/locations adjoining the Democratic Republic of Congo.
DRC	The Democratic Republic of Congo
Low Risk(LR)	countries/locations identified by smelters and refiners as low-risk.
High Risk(HR)	countries/locations identified by smelters and refiners as Conflict-Affected and High-Risk (HR)
Recycled Scrap(R/S)	Secondary sources of material (non-mined) *Note these countries/locations are not listed below

* Refiners Source

Known countries/locations from which Conformant Gold Refiners Source

L1	Argentina, Brazil, Chile, Colombia, Ghana, Japan, Mali, Mauritania, Nicaragua, Peru, Russian Federation, Togo
L2	South Africa
CC	Tanzania, Uganda, Rwanda
DRC	
Low Risk(LR)	Argentina, Brazil, Canada, Ghana, Guinea, Guyana, Japan, Mexico, Peru, Russian Federation, United States of America
High Risk(HR)	Benin, Bolivia (Plurinational State of), Brazil, Colombia, Ecuador, Eritrea, Ghana, Guinea, Guyana, Mexico, Mozambique, Niger, Peru, Rwanda, South Africa, Swaziland, Tanzania, Uganda
Recycled Scrap(R/S)	Argentina, Australia, Austria, Bahamas, Belgium, Benin, Brazil, Canada, Cayman Islands, Chile, China, Colombia, Czechia, Denmark, Dominican Republic, Estonia, Finland, France, Germany, Greece, Guatemala, Honduras, Hong Kong, Hungary, India, Indonesia, Ireland, Israel, Italy, Japan, Jordan, Latvia, Lithuania, Luxembourg, Malaysia, Malta, Monaco, Netherlands, Norway, Panama, Peru, Philippines, Poland, Romania, Russian Federation, Saudi Arabia, Singapore, Slovakia, South Africa, South Korea, Spain, St Vincent and Grenadines, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, United Kingdom, United States of America, Venezuela

Known countries/locations from which LBMA Good Delivery List Refiners Source - Mined Material (Provided by LBMA)

All COI	Argentina, Australia, Azerbaijan, Bolivia (Plurinational State of), Botswana, Brazil, Burkina Faso, Canada, Chile, China, Colombia, Cuba, Cyprus, Dominican Republic, Ecuador, Egypt, Ethiopia, Fiji, Finland, Georgia, Ghana, Guatemala, Guinea, Guyana, Honduras, Indonesia, Iran, Ivory Coast, Japan, Kazakhstan, Kenya, Laos, Liberia, Malaysia, Mali, Mauritania, Mexico, Mongolia, Morocco, Namibia, Netherlands, New Zealand, Nicaragua, Niger, Papua New Guinea, Peru, Philippines, Puerto Rico, Russian Federation, Saudi Arabia, Senegal, Serbia, Slovakia, Solomon Islands, South Africa, Spain, Suriname, Swaziland, Sweden, Tajikistan, Turkey, United Kingdom of Great Britain and Northern Ireland, United States of America, Uruguay, Zimbabwe
CC	Tanzania, Zambia
DRC	Congo, Democratic Republic of the

Known countries/locations from which LBMA Good Delivery List Refiners Source - Mined Material (Provided by LBMA)

All COI	Argentina, Armenia, Australia, Austria, Belgium, Bolivia, Botswana, Brazil, Brunei, Bulgaria, Burkina Faso, Cameroon, Canada, Chile, China, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Egypt, El Salvador, Estonia, Finland, Gambia (The), Georgia, Germany, Greece, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Ivory Coast, Japan, Jordan, Kazakhstan, Kenya, Korea (Republic of), Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Macau, Madagascar, Malaysia, Malta, Mauritius, Mexico, Morocco, New Caledonia, New Zealand, Norway, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Poland, Portugal, Puerto Rico, Romania, Russian Federation, San Marino, Saudi Arabia, Senegal, Serbia, Sierra Leone, Singapore, Slovakia, Slovenia, South Africa, Spain, Sudan, Sweden, Switzerland, Taiwan, Thailand, Togo, Trinidad and Tobago, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland, United States of America, Uruguay, Venezuela, Vietnam, Zimbabwe
CC	Tanzania
DRC	Congo, Democratic Republic of the

Known countries/locations from which RJC Refiners Source - Mined Material (Provided by RJC)

All COI	Botswana, Brazil, Burkina Faso, Canada, Chile, Colombia, Costa Rica, Cote d'Ivoire, Cyprus, Ecuador, French Guiana, Georgia, Ghana, Honduras, Indonesia, Malaysia, Mali, Mexico, Morocco, Nicaragua, Peru, Philippines, Saudi Arabia, Senegal, Suriname, Tajikistan, United States of America
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Known countries/locations from which Conformant Tantalum Smelters Source

L1	Australia, Austria, Bolivia (Plurinational State of), Brazil, China, Colombia, Ethiopia, France, Guinea, India, Madagascar, Malaysia, Nigeria, Russian Federation, Sierra Leone, Somaliland, Spain, Thailand
L2	Mozambique
CC	Burundi, Rwanda, Uganda
DRC	Congo, Democratic Republic of the
Low Risk(LR)	Australia, Bolivia, Brazil, China, Ethiopia, Germany, India, Malaysia, Mozambique, Namibia, Nigeria, Russian Federation, Sierra Leone, Spain, Thailand, Zimbabwe
High Risk(HR)	Burundi, Congo, Democratic Republic of the, Ethiopia, Myanmar, Rwanda
Recycled Scrap(R/S)	Austria, Belarus, China, France, Germany, Indonesia, Ireland, Israel, Japan, South Korea, Spain, Switzerland, Thailand, United Kingdom of Great Britain and Northern Ireland, United States of America

Known countries/locations from which Conformant Tin Smelters Source

L1	Australia, Bolivia (Plurinational State of), Brazil, China, Colombia, Guinea, Indonesia, Laos, Malaysia, Mongolia, Myanmar, Nigeria, Peru, Portugal, Russian Federation, Taiwan, Thailand, United Kingdom of Great Britain and Northern Ireland, Venezuela, Vietnam
L2	
CC	Burundi, Rwanda, Uganda
DRC	Congo, Democratic Republic of the
Low Risk(LR)	Australia, Brazil, Indonesia, Malaysia, Mongolia, Peru, Portugal, Spain, USA
High Risk(HR)	
Recycled Scrap(R/S)	Angola, Argentina, Australia, Austria, Bangladesh, Belarus, Belgium, Benin, Bolivia, Brazil, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Congo, Democratic Republic of the, Cyprus, Denmark, Egypt, El Salvador, Estonia, Finland, France, Gabon, Germany, Ghana, Greece, Guinea, Hong Kong, Hungary, India, Indonesia, Israel, Italy, Japan, Jordan, Kazakhstan, Latvia, Lebanon, Libya, Lithuania, Luxembourg, Malaysia, Mexico, Morocco, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Peru, Poland, Portugal, Philippines, Puerto Rico, Qatar, Romania, Saudi Arabia, Senegal, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sudan, Sweden, Switzerland, Taiwan, Tanzania, Thailand, Togo, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uruguay, Yemen

Known countries/locations from which Conformant Tungsten

Industry-Conflict Minerals Council (TI-CMC) Smelters Source - Mined Material (Provided by TI-CMC)

L1	Australia, Austria, Bolivia, China, Kazakhstan, Malaysia, Mexico, Mongolia, Myanmar, Nigeria, Peru, Portugal, Russian Federation, Spain, Thailand, United Kingdom of Great Britain and Northern Ireland, United States of America, Vietnam, Zimbabwe
CC	Burundi, Rwanda, Uganda
DRC	Congo, Democratic Republic of the

Known countries/locations from which Conformant Tungsten Smelters Source

L1	Australia, Bolivia, Brazil, China, Colombia, Guinea, Indonesia, Laos, Malaysia, Mongolia, Myanmar, Nigeria, Peru, Portugal, Russian Federation, Spain, Taiwan, Thailand, United Kingdom of Great Britain and Northern Ireland, United States of America, Uzbekistan, Vietnam
L2	
CC	Burundi, Rwanda, Uganda
DRC	Congo, Democratic Republic of the
Low Risk(LR)	Austria, China, Russian Federation
High Risk(HR)	
Recycled Scrap(R/S)	Austria, Belgium, Brazil, Canada, China, Czech Republic, France, Germany, Hong Kong, Japan, Latvia, Russia, Spain, Taiwan, Thailand, United Arab Emirates, United States of America, Vietnam

Cobalt Smelter List

No	ID	Smelter Name	Location
1	CID003209	Gem (Jiangsu) Cobalt Industry Co., Ltd.	China
2	CID003210	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	China
3	CID003211	Zhuhai Kelixin Metal Materials Co., Ltd.	China
4	CID003212	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	China
5	CID003213	Guangxi Yinyi Advanced Material Co., Ltd.	China
6	CID003215	Tianjin Maolian Science & Technology Co., Ltd.	China
7	CID003221	Nantong Xinwei Nickel Cobalt Technology Development Co., Ltd.	China
8	CID003225	Zhejiang Huayou Cobalt Co.,Ltd.	China
9	CID003226	Freeport Cobalt Oy	Finland
10	CID003228	Umicore Olen	Belgium
11	CID003255	Quzhou Huayou Cobalt New Material Co., Ltd.	China
12	CID003264	Chemaf Etoile	DRC
13	CID003278	Sumitomo Metal Mining	Japan
14	CID003279	Mine de Bou-Azzer	Morocco
15	CID003280	Complexe hydrométallurgique de Guemassa	Morocco
16	CID003291	Guangdong Jiana Energy Technology Co., Ltd.	China
17	CID003293	Jiangsu Xiongfeng Technology Co., Ltd.	China
18	CID003338	SungEel HiTech Co.,Ltd.	Korea
19	CID003377	Jiangxi Jiangwu Cobalt industrial Co., Ltd.	China
20	CID003378	Jingmen GEM Co., Ltd.	China
21	CID003384	Ganzhou Highpower Technology Co., Ltd.	China
22	CID003390	NORILSK NICKEL HARJAVALTA OY	Finland
23	CID003398	New Era Group Zhejiang Zhongneng Cycle Technology Co., Ltd.	China
24	CID003404	Hunan Yacheng New Materials Co., Ltd.	China
25	CID003406	Murrin Murrin Nickel Cobalt Plant	Australia
26	CID003411	Hunan Zoomwe New Energy Science & Technology Co., Ltd.	China
27	CID003415	Cosmo EcoChem Co., Ltd.	Korea

SAMSUNG