

AOC & MMD CONFLICT MINERALS REPORT 2022

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KEY TO BROWSING THIS DOCUMENT



CONFLICT MINERAL DEFINITION

➤ **Conflict minerals:** In Congo-Kinshasa and the surrounding countries, the mining of tin, tantalum, tungsten and gold (known as “3TG” conflict minerals), cobalt and other rare earth elements have caused serious human rights and environmental issues. Most of the mining activities in these areas associated with armed groups of conflict (funding), lead to long-term instability in the region.

Various parties, including the United States Congress, have concerns that the exploitation and trade of conflict minerals by armed groups is helping to finance conflict in the Democratic Republic of Congo (“DRC”) region and is contributing to an emergency humanitarian crisis.

CONFLICT MINERAL MANAGEMENT POLICY

AOC & MMD ARE TPVS
OWN BRANDS AND
APPLY TO THE CONFLICT
MINERALS POLICY OF TPV

➤ To support the global prohibition of conflict minerals, TPV has developed an internal conflict minerals management system to ensure TPV and its suppliers avoid the procurement of conflict minerals.

TPV itself and suppliers neither directly nor indirectly finance armed groups in conflict-affected regions. TPV itself and suppliers neither tolerate nor contribute to human rights abuses that include forced labor, child labor and environmental degradation.



DUE DILIGENCE PROGRAM

➤ Based on the second edition of the **Organization for Economic Co-operation and Development Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas** (including its supplements on 3TG, Cobalt, Mica and other rare earth elements, referred to in this report as “OECD Guidance”), TPV supports an industry initiative that uses an independent third-party audit to identify smelters and refiners that have systems in place to assure the sourcing of only conflict-free materials. That industry initiative is called **RMI (Responsible Mineral Initiative)** and is also known as **CFSI (Conflict-Free Sourcing Initiative)**. TPV Technology Ltd as a mother company of **AOC International Europe B.V.** and **MMD Monitors & Display Nederland B.V.** has been [RMI member](#) since 2015.

TPV is thereby member of the **Responsible Business Alliance (RBA)**. The RBA is a nonprofit comprised of leading companies committed to supporting the rights and well-being of workers and communities worldwide that are affected by global supply chains. RBA members commit and are held accountable to a common Code of Conduct and utilize a range of RBA training and due diligence tools to support continual improvement in the social, environmental and ethical performance of their supply chains.

TPV became also member of **ITSCI (International Tin Association)**. It's an award-winning multi-stakeholder program contributing to better governance, human rights & stability. ITSCI's purpose is to create responsible mineral supply chains that avoid contributing to conflict, human rights abuses, or other risks such as bribery, currently in central Africa.



TPV distinguish the following five-step OECD-framework for due diligence in the mineral supply chain:

STEP 1

ESTABLISH STRONG COMPANY MANAGEMENT SYSTEM

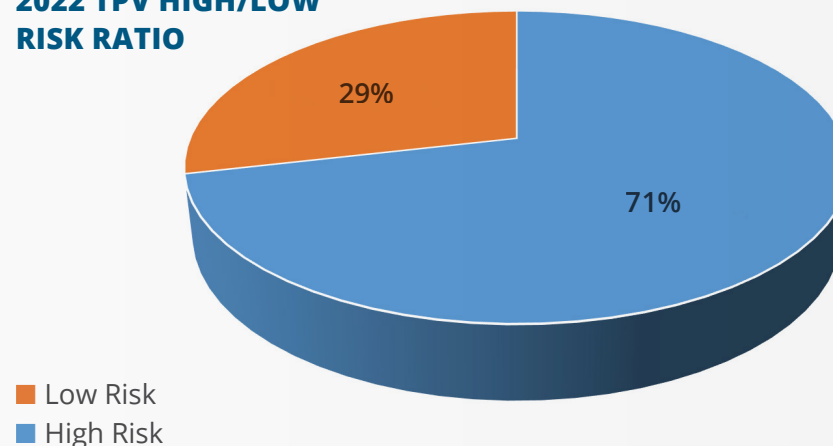
- 1) TPV published this conflict minerals report, which has conflict mineral management requirements for suppliers, on <https://www.tpv-tech.com/duty3.html>. We also have an internal management procedure called 'Procedures of Conflict Mineral Management / SOP'.
- 2) TPV is committed not to purchase raw materials, subassemblies, or supplies which we know contain conflict minerals that directly or indirectly finance or benefit armed groups in the DRC or an adjoining country.
- 3) TPV requires the suppliers to complete the Conflict Minerals Reporting Template (CMRT) and Extended Mineral Reporting Template (EMRT) on a yearly basis.
- 4) TPV requires the high/low risk suppliers to sign the guarantee letter of not using conflict minerals.

STEP 2

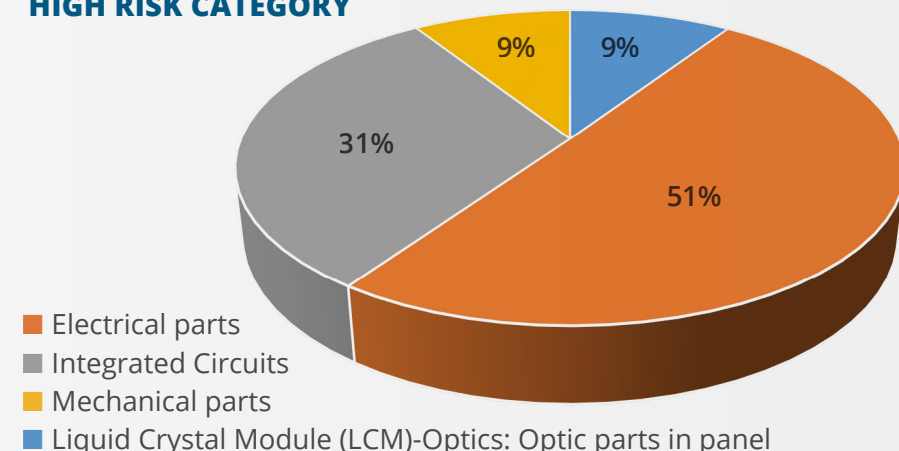
IDENTIFY AND ASSESS RISKS IN THE SUPPLY CHAIN

- 1) We established a risk review method (Conflict mineral risk assessment form) to identify risks in the supply chain. High risk - metal parts having either of Tin, Tantalum, Tungsten, Gold, Cobalt and Mica; Low risk - metal parts as low risk having no substance containing Tin, Tantalum, Tungsten, Gold, Cobalt and Mica; No risk - parts not having metal.
- 2) According to the above risk identification, TPV addresses high and low risk suppliers for due diligence investigation, and requires high and low risk suppliers to sign the guarantee letter claiming that they do not directly or indirectly finance armed groups in the DRC or an adjoining country, neither tolerate nor contribute to human rights abuses that include forced labor, child labor and environmental degradation.
- 3) TPV evaluates the smelters identified in the supplier CMRTs and EMRTs based on the information available and we use the RMAP (Responsible Mineral Assurance Process) compliant smelter list. TPV relies on industry programs like the RMAP to carry out smelter assessments, and we also rely on the RMAP eligible smelter list to determine whether smelters performed due diligence.

2022 TPV HIGH/LOW RISK RATIO



HIGH RISK CATEGORY



STEP 3

DESIGN AND IMPLEMENT A STRATEGY TO RESPOND TO IDENTIFIED RISKS

- 1) TPV identifies non-RMAP compliant smelters as high risks. For non-conformities that have been identified, we have an obligation to promote suppliers' understanding of using conflict-free minerals is an important item in our procurement scoring program. If there is an alternative, TPV prefers to select a reliable supply chain. In 2021, TPV focused on promoting the establishment of conflict-free minerals management methods in the supply chain, and will continue to conduct random checks on high-risk suppliers by e-mail, telephone or other communication methods, and provide feedback on how to improve policies when necessary.
- 2) TPV receives the latest RMAP smelter list and double confirms whether the change will affect TPV's smelter list. If the smelter is removed from RMAP system then TPV will repeat the above Step 3, item 1).

STEP 4

PLAN AN INDEPENDENT THIRD- PARTY AUDIT OF THE SMELTER OR REFINER'S DUE DILIGENCE

TPV relies on information provided by the RMAP for this step, and uses the RMI RCOI report to identify the minerals country of origin and conflict-free status of smelters.

STEP 5

REPORT ANNUALLY ON SUPPLY CHAIN DUE DILIGENCE

Since 2017, TPV reports annually on supply chain due diligence and will continue to update the smelter list every year.

DUE DILIGENCE PRACTICE IN THE SUPPLY CHAIN

➤ In 2022, TPV initiated a high-risk supplier survey. All our suppliers need to fill out the CMRT published by RMI in order for us to identify traceability of minerals used in the supply chain. The goal is that the response rate is 100% according to TPV's strict policy. In summary, during the review period from December 1, 2022 to February 23, 2023, there are total 230 smelters or refineries (with 10 Cobalt smelters) in the TPV supply chain, which are involved and certified in the RMAP (listed in Appendix). For non-active smelters, TPV gives 3 months to implement the improvement, if there is still no progress, TPV will ask the suppliers to stop using the smelters within one month.

The percentage of suppliers for which information regarding conflict minerals is available is 100% in 2022.

Despite what TPV executes, we all know that researching the source of minerals through the supply chain is a complex task. As the final assemblies, TPV does not purchase materials directly from mines, smelters or refiners. At this stage, it is impossible to trace the use of mineral materials at each downstream supplier of each material. Instead of that, TPV relies on the suppliers' CMRT reports. Therefore, the completed and correct supplier reports and the suppliers' procurement contracts will reduce the risk of purchasing components with mineral-containing materials.

PROJECT UPDATE PACT 2020



➤ **In 2020, TPV and the subsidiaries AOC and Philips Monitors partnered with Pact to improve responsible sourcing of minerals in the Democratic Republic of Congo. Artisanal and small-scale mining (ASM) provides an important livelihood in DRC.**

An estimated 2 million people directly depend on ASM activities across the country, mining vital minerals for the world's electronic devices and green technology that result in significant contributions to the national and global economies. With our support, Pact will train local mining stakeholders, including artisanal miners, mining cooperatives and state mining services, on DRC's new Mining Code and Regulations on ASM that were adopted in 2018.

The training will help mining communities know their rights; understand issues and challenges with mining in conflict-affected and high-risk areas, and possible implications for miners' security and human rights; make informed decisions on legal requirements to engage in mining; and follow the rules and avoid fines.

In addition to raising awareness on governance of the sector, the partnership will also focus on improving occupational health and safety (OHS) at mine sites. ASM involves the manual extraction of minerals using rudimentary tools and techniques. It is often carried out informally, with little geological knowledge and scant attention paid to mine management or health and safety. These mines often present a wide range of physical hazards to workers that compromise their safety and wellbeing.



Working with local mining cooperatives, Pact will assess OHS risks at artisanal mine sites and develop mitigation measures, in cooperation with the cooperatives' leadership, concession owner and state services. Pact will also train mine managers, team leaders, cooperatives and government agents on OHS using a 'train the trainers' approach. This type of approach creates a cadre of people who can then pass the skills on to others, increasing the project's effectiveness and sustainably.



PROJECT UPDATE PACT 2021



➤ **IPact has developed a booklet to explain and disseminate key legal aspects of the Congolese Mining Code and Regulation. With this new booklet, Pact provides a detailed overview of key articles that are relevant for artisanal and small-scale mining communities. This booklet aims to make sure that ASM miners know their rights and responsibilities.**

Written for artisanal miners, the booklet was developed in cooperation with officials, state services and civil society from North Kivu Province with support from the North Kivu Minister of Mines. It covers all areas of ASM, from the conditions, requirements and limitations to work as an ASM miner or local trader, known locally as negociants, to mine minerals at mine sites and trading for export. The booklet also covers key risks such as mineral fraud and child labor while also promoting the role of women in ASM.

First launched in North Kivu's capital, Goma, at the beginning of October, the project was later introduced to local stakeholders in the trading hub of Rubaya, in Masisi territory of North Kivu Province. The French-language booklets were distributed to all project participants. Posters were developed in local languages and displayed in various local offices and will be displayed at mine sites. In the coming months, Pact's project team will continue organizing awareness-raising meetings with local mining communities in Masisi territory on the mining code and regulation.

A second component of the project focuses on improving occupational health and safety (OHS) at tin, tantalum and tungsten (the '3T') mine sites, another key challenge that ASM miners face in their daily work and a key responsibility of miners under Congolese regulations.

In partnership with a local mining cooperative, Pact has identified three mine sites where OHS training and interventions will be carried out. A training curriculum was developed and OHS committees were set up and trained at each site.

These committees, trained by Pact, will meet regularly and carry out joint visits to the sites to raise awareness of ASM miners on health and safety issues, identify all OHS risks at the site, develop mitigation measures and conduct ongoing monitoring. Committees include representatives from the cooperative, the Service for Assistance and Supervision of Artisanal and Small-Scale Mining organization (SAEMAPE), the Mine Division, mining title holder, landowner, ITSCI officer and the mining police. The training activities conducted so far have received strong support from local stakeholders.

"The training allowed us to recognize our weaknesses about how activities are conducted at the mine. I ask all committee members to take on these challenges and start raising the awareness of miners about OHS," said Johnny Mashagi, SAEMAPE supervisor at a selected site and member of an OHS committee.

This project was designed in a way that it is sustainable, through a 'train-the-trainer' approach, so that mining stakeholders become the future trainers of their own peers. Simultaneously, the project can be easily scaled-up by expanding it to new mine sites and areas in the DRC and addressing other issues faced by ASM miners on the ground.

PROJECT UPDATE PACT 2022



➤ Building on the first year (January-December 2021) of its formalization and governance project funded by AOC International (Europe) B.V. and MMD-Monitors & Displays Nederland B.V. (Philips Monitors), in 2022, Pact extended training and outreach activities to reach more miners and mine sites, install sign boards with occupational health and safety (OHS) messaging, conduct first aid classes, and improve mine site safety.

With the project originating in Goma and North Kivu in the Democratic Republic of Congo (DRC), in October 2021, the reach was extended to Rubaya in the Masisi territory in 2022. Pact continued to disseminate the well-received booklet from year one that covered key legal aspects of the Congolese Mining Code and Regulation and outlined key risk factors; such as mineral fraud. During the second year, Pact rolled out additional trainings to accompany the booklet for miners working in tin, tungsten, and tantalum (3T) artisanal mine sites. These additional trainings were focused on increasing OHS awareness, teaching first aid skills, and generating an understanding of the requirements stated in the DRC mining code.



THE CREATION OF OHS COMMITTEES

- Another key aspect of the project's 2022 success has been the creation of OHS committees comprised of 20 or more members who are trained with the project's booklet. These members serve as regional trainers and their responsibility is to pass on mining knowledge by training other miners, cooperatives, and mine sites.

The committees also serve as a forum to discuss challenges, successes, and how lessons learned can be practically applied in other regions participating in the project. The strong support of local DRC leaders from year one has been another key aspect of the continued success into year two: They have helped to identify and recommend additional mines to expand the training and have helped create new OHS committees. Local leaders have also highlighted new areas that have reported a recent increase in accidents and disregard for health and safety guidelines that could benefit from the training and creation of more OHS committees.

SUCCESS STORIES OF THE OHS COMMITTEES

- An example of this is the Mutanga Mining Cooperative COMIMU. During their first sensitization session in 2022, the head of the Mutanga mining cooperative COMIMU welcomed the extension of the OHS activities mentioned above to their mine site and promised to implement all OHS orientations for the well-being of their artisanal miners. Another success story of this project is that of the mining cooperative COMIDC.

The secretary and mining operations manager explained that he was very satisfied during the first awareness session at their mine and he believes that OHS committee formation and training at their mine site will enable the monitoring and resolution of OHS-related issues and accidents; such as flooding and landslides. In addition, he also acknowledged and praised the involvement of the Kibabi OHS Committee for their participation in resolving and proposing mitigation solutions to the area.

His colleague and site manager at COMIDC supported his reflections, stating: "I think that the risk of accidents on the site can be significantly reduced if the cooperative takes its responsibilities and puts into practice what was learned during the training. I have visited more than three sites and noted that the miners are equipped with PPE and their wells are well dug and protected by wooden support."

CONTINUING PACT'S MISSION

- Already adhering to Pact's responsibility for mineral production, sourcing, and due diligence programming, the project's initiative of OHS training builds on the ongoing engagement of the organization's community and mining relationships. Thereby complementing past efforts while also maximizing the environmental impact that responsible artisanal mining intervention brings.

In addition, through the Project's newly established OHS committee, miners and mine sites were able to conduct their own assessments of identifying risks and violations of the mining code. To address the identified risks, for example, some mines added sign boards to the entrance of their sites that use pictures and statements to easily communicate safe mining practices.

2023: THE THIRD AND FINAL YEAR

- As of the end of 2022, the project directly benefitted 3,135 miners (including 274 female) across 11 mine sites and 300 community members (including 50 female) across 5 mining sectors.

In addition, the project installed 20 mural and distributed 200 posters and booklets in key locations within the mining sites and communities. As we enter the third and final year of the project, AOC, MMD and Pact are excited to see these efforts continue to foster change in safety and knowledge across the Masisi mining territories.

FURTHER DUE DILIGENCE PLAN

- Since 2019, TPV has the CMRT investigation in place of 3TG together with extended minerals like Cobalt and Mica. TPV continues the engagement with industry programs like RMI, to actively attend its seminars and summits to have the latest information and pass it to the priority suppliers.

We continue reaching out to smelters that are not yet RMAP compliant, to have at least 90% RMAP compliant smelters from 2019.

ADDRESSING CONCERNS

- TPV actively encourages its employees and other parties such as upstream companies (e.g. smelters, mines) to report concerns either directly to the company or through TPV's ethics hotline, training course and other channels.

Employees, customers or suppliers of the company can report violations of TPV's ethical behavior or issues related to conflict minerals by the specific channel: email (Jenna. Wei@tpv-tech.com), or by phone (0591-85285555). TPV also looks forward to suggestions for improvement to minimize procurement risks and obliging responsibility to the international community's actions for conflict-free minerals.

APPENDIX: 2022 SMELTER/REFINERY LIST

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
1	Cobalt	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA
2	Cobalt	Guangdong Jiana Energy Technology Co., Ltd.	CHINA
3	Cobalt	Zhejiang Huayou Cobalt Company Limited	CHINA
4	Cobalt	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA
5	Cobalt	Niihama Nickel Refinery, Sumitomo Metal Mining	JAPAN
6	Cobalt	Umicore Finland Oy	FINLAND
7	Cobalt	Umicore Olen	BELGIUM
8	Cobalt	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA
9	Cobalt	Murrin Murrin Nickel Cobalt Plant	AUSTRALIA
10	Cobalt	Compagnie de Tifnout Tiranimine	MOROCCO
11	Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
12	Gold	Aida Chemical Industries Co., Ltd.	JAPAN
13	Gold	Agosi AG	GERMANY
14	Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
15	Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
16	Gold	Argor-Heraeus S.A.	SWITZERLAND
17	Gold	Asahi Pretec Corp.	JAPAN
18	Gold	Asaka Riken Co., Ltd.	JAPAN

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
19	Gold	Aurubis AG	GERMANY
20	Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
21	Gold	Boliden AB	SWEDEN
22	Gold	C. Hafner GmbH + Co. KG	GERMANY
23	Gold	CCR Refinery - Glencore Canada Corporation	CANADA
24	Gold	Chimet S.p.A.	ITALY
25	Gold	Chugai Mining	JAPAN
26	Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
27	Gold	Dowa	JAPAN
28	Gold	Eco-System Recycling Co., Ltd. East Plant	JAPAN
29	Gold	LT Metal Ltd.	KOREA, REPUBLIC OF
30	Gold	Heimerle + Meule GmbH	GERMANY
31	Gold	Heraeus Metals Hong Kong Ltd.	CHINA
32	Gold	Heraeus Germany GmbH Co. KG	GERMANY
33	Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
34	Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
35	Gold	Istanbul Gold Refinery	TURKEY
36	Gold	Japan Mint	JAPAN
37	Gold	Jiangxi Copper Co., Ltd.	CHINA
38	Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
39	Gold	Asahi Refining Canada Ltd.	CANADA
40	Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
41	Gold	Kazzinc	KAZAKHSTAN



ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
42	Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
43	Gold	Kojima Chemicals Co., Ltd.	JAPAN
44	Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
45	Gold	Materion	UNITED STATES OF AMERICA
46	Gold	Matsuda Sangyo Co., Ltd.	JAPAN
47	Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
48	Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
49	Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
50	Gold	Metalor Technologies S.A.	SWITZERLAND
51	Gold	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
52	Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
53	Gold	Mitsubishi Materials Corporation	JAPAN
54	Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
55	Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
56	Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
57	Gold	Nihon Material Co., Ltd.	JAPAN
58	Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
59	Gold	PAMP S.A.	SWITZERLAND
60	Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA
61	Gold	PX Precinox S.A.	SWITZERLAND
62	Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
63	Gold	Royal Canadian Mint	CANADA
64	Gold	Samduck Precious Metals	KOREA, REPUBLIC OF

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
65	Gold	SEMPSA Joyeria Plateria S.A.	SPAIN
66	Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
67	Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
68	Gold	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
69	Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN
70	Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN
71	Gold	Tokuriki Honten Co., Ltd.	JAPAN
72	Gold	Torecom	KOREA, REPUBLIC OF
73	Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
74	Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
75	Gold	Valcambi S.A.	SWITZERLAND
76	Gold	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA
77	Gold	Yamakin Co., Ltd.	JAPAN
78	Gold	Yokohama Metal Co., Ltd.	JAPAN
79	Gold	SAFINA A.S.	CZECHIA
80	Gold	Umicore Precious Metals Thailand	THAILAND
81	Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
82	Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
83	Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
84	Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
85	Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
86	Gold	T.C.A S.p.A	ITALY
87	Gold	REMONDIS PMR B.V.	NETHERLANDS

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
88	Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
89	Gold	TOO Tau-Ken-Altyn	KAZAKHSTAN
90	Gold	SAAMP	FRANCE
91	Gold	L'Orfebre S.A.	ANDORRA
92	Gold	Italpreziosi	ITALY
93	Gold	WIELAND Edelmetalle GmbH	GERMANY
94	Gold	Ogussa Österreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA
95	Gold	Bangalore Refinery	INDIA
96	Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
97	Gold	Planta Recuperadora de Metales SpA	CHILE
98	Gold	NH Recytech Company	KOREA, REPUBLIC OF
99	Gold	Eco-System Recycling Co., Ltd. North Plant	JAPAN
100	Gold	Eco-System Recycling Co., Ltd. West Plant	JAPAN
101	Gold	Metal Concentrators SA (Pty) Ltd.	SOUTH AFRICA
102	Gold	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA
103	Gold	Alexy Metals	UNITED STATES OF AMERICA
104	Gold	Augmont Enterprises Private Limited	INDIA
105	Gold	Sancus ZFS (L'Orfebre, SA)	COLOMBIA
106	Gold	WEEEREFINING	FRANCE
107	Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
108	Tantalum	F&X Electro-Materials Ltd.	CHINA
109	Tantalum	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA
110	Tantalum	Jiujiang JinXin Nonferrous Metals Co., Ltd.	CHINA



ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
111	Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA
112	Tantalum	AMG Brasil	BRAZIL
113	Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
114	Tantalum	Mineracao Taboca S.A.	BRAZIL
115	Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN
116	Tantalum	NPM Silmet AS	ESTONIA
117	Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
118	Tantalum	QuantumClean	UNITED STATES OF AMERICA
119	Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
120	Tantalum	Taki Chemical Co., Ltd.	JAPAN
121	Tantalum	Telex Metals	UNITED STATES OF AMERICA
122	Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
123	Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
124	Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
125	Tantalum	FIR Metals & Resource Ltd.	CHINA
126	Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
127	Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
128	Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
129	Tantalum	KEMET de Mexico	MEXICO
130	Tantalum	TANIOBIS Co., Ltd.	THAILAND
131	Tantalum	TANIOBIS GmbH	GERMANY
132	Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY
133	Tantalum	H.C. Starck Inc.	UNITED STATES OF AMERICA



ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
134	Tantalum	TANIOBIS Japan Co., Ltd.	JAPAN
135	Tantalum	TANIOBIS Smelting GmbH & Co. KG	GERMANY
136	Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
137	Tantalum	Global Advanced Metals Aizu	JAPAN
138	Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
139	Tantalum	Jiangxi Tuohong New Raw Material	CHINA
140	Tantalum	RFH Yancheng JinYE New Material Technology Co., Ltd.	CHINA
141	Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
142	Tin	China Tin Group Co., Ltd.	CHINA
143	Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
144	Tin	Alpha	UNITED STATES OF AMERICA
145	Tin	Dowa	JAPAN
146	Tin	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
147	Tin	Fenix Metals	POLAND
148	Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
149	Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
150	Tin	Metallic Resources, Inc.	UNITED STATES OF AMERICA
151	Tin	Mineracao Taboca S.A.	BRAZIL
152	Tin	Minsur	PERU
153	Tin	Mitsubishi Materials Corporation	JAPAN
154	Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
155	Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
156	Tin	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
157	Tin	PT Artha Cipta Langgeng	INDONESIA
158	Tin	PT Babel Surya Alam Lestari	INDONESIA
159	Tin	PT Bukit Timah	INDONESIA
160	Tin	PT Mitra Stania Prima	INDONESIA
161	Tin	PT Prima Timah Utama	INDONESIA
162	Tin	PT Refined Bangka Tin	INDONESIA
163	Tin	PT Sariwiguna Binasentosa	INDONESIA
164	Tin	PT Stanindo Inti Perkasa	INDONESIA
165	Tin	PT Timah Tbk Kundur	INDONESIA
166	Tin	PT Timah Tbk Mentok	INDONESIA
167	Tin	Rui Da Hung	TAIWAN, PROVINCE OF CHINA
168	Tin	Thaisarco	THAILAND
169	Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
170	Tin	Magnu's Minerais Metais e Ligas Ltda.	BRAZIL
171	Tin	PT ATD Makmur Mandiri Jaya	INDONESIA
172	Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
173	Tin	Resind Industria e Comercio Ltda.	BRAZIL
174	Tin	Metallo Belgium N.V.	BELGIUM
175	Tin	Metallo Spain S.L.U.	SPAIN
176	Tin	PT Menara Cipta Mulia	INDONESIA
177	Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
178	Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
179	Tin	PT Bangka Serumpun	INDONESIA

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
180	Tin	Tin Technology & Refining	UNITED STATES OF AMERICA
181	Tin	PT Rajawali Rimba Perkasa	INDONESIA
182	Tin	Luna Smelter, Ltd.	RWANDA
183	Tin	Fabrica Auricchio Industria e Comercio Ltda.	BRAZIL
184	Tin	PT Babel Inti Perkasa	INDONESIA
185	Tin	Estanho de Rondonia S.A.	BRAZIL
186	Tin	CRM Synergies	SPAIN
187	Tin	PT Sukses Inti Makmur	INDONESIA
188	Tin	PT Mitra Sukses Globalindo	INDONESIA
189	Tin	PT Cipta Persada Mulia	INDONESIA
190	Tin	PT Putera Sarana Shakti (PT PSS)	INDONESIA
191	Tin	PT Aries Kencana Sejahtera	INDONESIA
192	Tin	CV Ayi Jaya	INDONESIA
193	Tin	PT Belitung Industri Sejahtera	INDONESIA
194	Tin	PT Tommy Utama	INDONESIA
195	Tin	CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	BRAZIL
196	Tin	PT Bangka Prima Tin	INDONESIA
197	Tin	A.L.M.T. Corp.	JAPAN
198	Tungsten	Kennametal Huntsville	UNITED STATES OF AMERICA
199	Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
200	Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
201	Tungsten	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA
202	Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
203	Tungsten	Japan New Metals Co., Ltd.	JAPAN
204	Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
205	Tungsten	Kennametal Fallon	UNITED STATES OF AMERICA
206	Tungsten	Wolfram Bergbau und Hutten AG	AUSTRIA
207	Tungsten	Xiamen Tungsten Co., Ltd.	CHINA
208	Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
209	Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
210	Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CHINA
211	Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA
212	Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA
213	Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
214	Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
215	Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
216	Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM
217	Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA
218	Tungsten	H.C. Starck Tungsten GmbH	GERMANY
219	Tungsten	TANIOBIS Smelting GmbH & Co. KG	GERMANY
220	Tungsten	Masan High-Tech Materials	VIET NAM
221	Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
222	Tungsten	Niagara Refining LLC	UNITED STATES OF AMERICA
223	Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
224	Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
225	Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA

ITEM	MINERAL	SMELTERS/REFINERY NAME	COUNTRY
226	Tungsten	Fujian Ganmin RareMetal Co., Ltd.	CHINA
227	Tungsten	Lianyou Metals Co., Ltd.	TAIWAN, PROVINCE OF CHINA
228	Tungsten	Cronimet Brasil Ltda	BRAZIL
229	Tungsten	Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd.	CHINA
230	Tungsten	Fujian Xinlu Tungsten	CHINA

REVISION LIST

VER	SUMMARY OF THE REVISION	REVISED BY	APPROVED BY	DATE OF ISSUE
0.0	New Establishment	Hong Wei	Jed Hsu	Sep-02-2019
1.0	Add cobalt requirements	Hong Wei	Vivian Hsu	Sep-08-2020
2.0	Updated version	Zen Tseng	Kevin Hung	Feb-05-2021
2.1	Add OECD guideline	Zen Tseng	Kevin Hung	Oct-08-2021
3.0	Updated version	Zen Tseng	Kevin Hung	Mar-11-2022
4.0	Updated version, add new memberships	Zen Tseng	Kevin Hung	Feb-24-2023



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