



# Smelter and Refiner List

This list includes the facilities which, to the extent known, processed minerals in Intel products as of March 4, 2022. Intel conducts no direct transactions and has no contractual relationship with these smelter and refiner facilities nor their sources of ore.

| Mineral  | Smelter or Refinery Facility Name†                    | Country†   |
|----------|---|------------|
| Tantalum | AMG Brasil*   | BRAZIL     |
| Tantalum | Mineracao Taboca S.A.*                                | BRAZIL     |
| Tantalum | Resind Industria e Comercio Ltda.*                    | BRAZIL     |
| Tantalum | Changsha South Tantalum Niobium Co., Ltd.*            | CHINA      |
| Tantalum | F&X Electro-Materials Ltd.*                           | CHINA      |
| Tantalum | FIR Metals & Resource Ltd.*                           | CHINA      |
| Tantalum | Hengyang King Xing Lifeng New Materials Co., Ltd.*    | CHINA      |
| Tantalum | Jiangxi Dinghai Tantalum & Niobium Co., Ltd.*         | CHINA      |
| Tantalum | Jiangxi Tuohong New Raw Material*                     | CHINA      |
| Tantalum | Jiujiang JinXin Nonferrous Metals Co., Ltd.*          | CHINA      |
| Tantalum | Jiujiang Tanbre Co., Ltd.*                            | CHINA      |
| Tantalum | Jiujiang Zhongao Tantalum & Niobium Co., Ltd.*        | CHINA      |
| Tantalum | Ningxia Orient Tantalum Industry Co., Ltd.*           | CHINA      |
| Tantalum | RFH Yancheng Jinye New Material Technology Co., Ltd.* | CHINA      |
| Tantalum | XIMEI RESOURCES (GUANGDONG) LIMITED*                  | CHINA      |
| Tantalum | XinXing HaoRong Electronic Material Co., Ltd.*        | CHINA      |
| Tantalum | Yanling Jincheng Tantalum & Niobium Co., Ltd.*        | CHINA      |
| Tantalum | NPM Silmet AS*  | ESTONIA    |
| Tantalum | H.C. Starck Hermsdorf GmbH*                           | GERMANY    |
| Tantalum | TANIOBIS GmbH*  | GERMANY    |
| Tantalum | TANIOBIS Smelting GmbH & Co. KG*                      | GERMANY    |
| Tantalum | Metallurgical Products India Pvt., Ltd.*              | INDIA      |
| Tantalum | Global Advanced Metals Aizu*                          | JAPAN      |
| Tantalum | Mitsui Mining and Smelting Co., Ltd.*                 | JAPAN      |
| Tantalum | Taki Chemical Co., Ltd.*                              | JAPAN      |
| Tantalum | TANIOBIS Japan Co., Ltd.*                             | JAPAN      |
| Tantalum | Ulba Metallurgical Plant JSC*                         | KAZAKHSTAN |
| Tantalum | KEMET de Mexico*                                      | MEXICO     |
| Tantalum | Solikamsk Magnesium Works OAO*                        | RUSSIA     |
| Tantalum | TANIOBIS Co., Ltd.*                                   | THAILAND   |

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| Tantalum | D Block Metals, LLC*   | UNITED STATES OF AMERICA |
| Tantalum | Exotech Inc.*  | UNITED STATES OF AMERICA |
| Tantalum | Global Advanced Metals Boyertown*  | UNITED STATES OF AMERICA |
| Tantalum | H.C. Starck Inc.*  | UNITED STATES OF AMERICA |
| Tantalum | QuantumClean*  | UNITED STATES OF AMERICA |
| Tantalum | Telex Metals*  | UNITED STATES OF AMERICA |
| Tin      | Metallo Belgium N.V.*  | BELGIUM                  |
| Tin      | EM Vinto*  | BOLIVIA                  |
| Tin      | Operaciones Metalurgicas S.A.*   | BOLIVIA                  |
| Tin      | CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda** | BRAZIL                   |
| Tin      | Estanho de Rondonia S.A.**   | BRAZIL                   |
| Tin      | Fabrica Auricchio Industria e Comercio Ltda.*                                  | BRAZIL                   |
| Tin      | Magnu's Mineraiis Metais e Ligas Ltda.*  | BRAZIL                   |
| Tin      | Melt Metais e Ligas S.A.*  | BRAZIL                   |
| Tin      | Mineracao Taboca S.A.*   | BRAZIL                   |
| Tin      | Resind Industria e Comercio Ltda.*   | BRAZIL                   |
| Tin      | Soft Metais Ltda.*   | BRAZIL                   |
| Tin      | Super Ligas**  | BRAZIL                   |
| Tin      | White Solder Metalurgia e Mineracao Ltda.*                                     | BRAZIL                   |
| Tin      | Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.*                             | CHINA                    |
| Tin      | Chifeng Dajingzi Tin Industry Co., Ltd.*                                       | CHINA                    |
| Tin      | China Tin Group Co., Ltd.*   | CHINA                    |
| Tin      | Gejiu Kai Meng Industry and Trade LLC  | CHINA                    |
| Tin      | Gejiu Non-Ferrous Metal Processing Co., Ltd.*                                  | CHINA                    |
| Tin      | Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.*                                | CHINA                    |
| Tin      | Gejiu Zili Mining And Metallurgy Co., Ltd.*                                    | CHINA                    |
| Tin      | Guangdong Hanhe Non-Ferrous Metal Co., Ltd.*                                   | CHINA                    |
| Tin      | HuiChang Hill Tin Industry Co., Ltd.*  | CHINA                    |
| Tin      | Ma'anshan Weitai Tin Co., Ltd.*  | CHINA                    |
| Tin      | Tin Smelting Branch of Yunnan Tin Co., Ltd.**                                  | CHINA                    |
| Tin      | Yunnan Chengfeng Non-ferrous Metals Co., Ltd.*                                 | CHINA                    |
| Tin      | Yunnan Yunfan Non-ferrous Metals Co., Ltd.                                     | CHINA                    |
| Tin      | PT Artha Cipta Langgeng*   | INDONESIA                |
| Tin      | PT ATD Makmur Mandiri Jaya*  | INDONESIA                |
| Tin      | PT Babel Inti Perkasa*   | INDONESIA                |
| Tin      | PT Babel Surya Alam Lestari*   | INDONESIA                |
| Tin      | PT Bangka Serumpun*  | INDONESIA                |
| Tin      | PT Bukit Timah**   | INDONESIA                |
| Tin      | PT Cipta Persada Mulia*  | INDONESIA                |
| Tin      | PT Menara Cipta Mulia*   | INDONESIA                |
| Tin      | PT Mitra Stania Prima*   | INDONESIA                |
| Tin      | PT Mitra Sukses Globalindo**   | INDONESIA                |
| Tin      | PT Prima Timah Utama*  | INDONESIA                |
| Tin      | PT Rajawali Rimba Perkasa*   | INDONESIA                |
| Tin      | PT Refined Bangka Tin*   | INDONESIA                |

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| Tin      | PT Sariwiguna Binasentosa*                                     | INDONESIA                |
| Tin      | PT Stanindo Inti Perkasa*                                      | INDONESIA                |
| Tin      | PT Sukses Inti Makmur**  | INDONESIA                |
| Tin      | PT Timah Nusantara**   | INDONESIA                |
| Tin      | PT Timah Tbk Kundur*   | INDONESIA                |
| Tin      | PT Timah Tbk Mentok*   | INDONESIA                |
| Tin      | Dowa*  | JAPAN                    |
| Tin      | Mitsubishi Materials Corporation*                              | JAPAN                    |
| Tin      | Malaysia Smelting Corporation (MSC)*                           | MALAYSIA                 |
| Tin      | Minsur*  | PERU                     |
| Tin      | O.M. Manufacturing Philippines, Inc.*                          | PHILIPPINES              |
| Tin      | Fenix Metals*  | POLAND                   |
| Tin      | Novosibirsk Processing Plant Ltd.**                            | RUSSIA                   |
| Tin      | Luna Smelter, Ltd.*  | RWANDA                   |
| Tin      | CRM Synergies*   | SPAIN                    |
| Tin      | Metallo Spain S.L.U.*  | SPAIN                    |
| Tin      | Rui Da Hung*   | TAIWAN                   |
| Tin      | O.M. Manufacturing (Thailand) Co., Ltd.*                       | THAILAND                 |
| Tin      | Thaisarco*   | THAILAND                 |
| Tin      | Alpha*   | UNITED STATES OF AMERICA |
| Tin      | Metallic Resources, Inc.*                                      | UNITED STATES OF AMERICA |
| Tin      | Tin Technology & Refining*                                     | UNITED STATES OF AMERICA |
| Tin      | Thai Nguyen Mining and Metallurgy Co., Ltd.*                   | VIETNAM                  |
| Tungsten | Wolfram Bergbau und Hutten AG*                                 | AUSTRIA                  |
| Tungsten | Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.**   | BRAZIL                   |
| Tungsten | Cronimet Brasil Ltda*  | BRAZIL                   |
| Tungsten | Chenzhou Diamond Tungsten Products Co., Ltd.*                  | CHINA                    |
| Tungsten | China Molybdenum Tungsten Co., Ltd.*                           | CHINA                    |
| Tungsten | Chongyi Zhangyuan Tungsten Co., Ltd.*                          | CHINA                    |
| Tungsten | Fujian Ganmin RareMetal Co., Ltd.*                             | CHINA                    |
| Tungsten | Fujian Xinlu Tungsten*   | CHINA                    |
| Tungsten | Ganzhou Haichuang Tungsten Co., Ltd.*                          | CHINA                    |
| Tungsten | Ganzhou Huaxing Tungsten Products Co., Ltd.*                   | CHINA                    |
| Tungsten | Ganzhou Seadragon W & Mo Co., Ltd.*                            | CHINA                    |
| Tungsten | Guangdong Xianglu Tungsten Co., Ltd.*                          | CHINA                    |
| Tungsten | Hunan Chenzhou Mining Co., Ltd.*                               | CHINA                    |
| Tungsten | Hunan Chunchang Nonferrous Metals Co., Ltd.*                   | CHINA                    |
| Tungsten | Jiangwu H.C. Starck Tungsten Products Co., Ltd.*               | CHINA                    |
| Tungsten | Jiangxi Gan Bei Tungsten Co., Ltd.*                            | CHINA                    |
| Tungsten | Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.* | CHINA                    |
| Tungsten | Jiangxi Xinsheng Tungsten Industry Co., Ltd.*                  | CHINA                    |
| Tungsten | Jiangxi Yaosheng Tungsten Co., Ltd.*                           | CHINA                    |
| Tungsten | Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd.**     | CHINA                    |
| Tungsten | Malipo Haiyu Tungsten Co., Ltd.*                               | CHINA                    |
| Tungsten | Xiamen Tungsten (H.C.) Co., Ltd.*                              | CHINA                    |
| Tungsten | Xiamen Tungsten Co., Ltd.*                                     | CHINA                    |

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| Tungsten | Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.*     | CHINA                    |
| Tungsten | H.C. Starck Tungsten GmbH*                                       | GERMANY                  |
| Tungsten | TANIOBIS Smelting GmbH & Co. KG*                                 | GERMANY                  |
| Tungsten | A.L.M.T. Corp.*  | JAPAN                    |
| Tungsten | Japan New Metals Co., Ltd.*                                      | JAPAN                    |
| Tungsten | Philippine Chuangxin Industrial Co., Inc.*                       | PHILIPPINES              |
| Tungsten | Hydrometallurg, JSC*   | RUSSIA                   |
| Tungsten | JSC "Kirovgrad Hard Alloys Plant"*                               | RUSSIA                   |
| Tungsten | NPP Tyazhmetprom LLC**   | RUSSIA                   |
| Tungsten | OOO ?Technolom? 1**  | RUSSIA                   |
| Tungsten | OOO ?Technolom? 2**  | RUSSIA                   |
| Tungsten | KGETS Co., Ltd.*   | SOUTH KOREA              |
| Tungsten | Lianyou Metals Co., Ltd.*  | TAIWAN                   |
| Tungsten | Global Tungsten & Powders Corp.*                                 | UNITED STATES OF AMERICA |
| Tungsten | Kennametal Huntsville*   | UNITED STATES OF AMERICA |
| Tungsten | Niagara Refining LLC*  | UNITED STATES OF AMERICA |
| Tungsten | Masan High-Tech Materials*                                       | VIETNAM                  |
| Gold     | L'Orfebre S.A.*  | ANDORRA                  |
| Gold     | Western Australian Mint (T/a The Perth Mint)*                    | AUSTRALIA                |
| Gold     | Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH*     | AUSTRIA                  |
| Gold     | Umicore S.A. Business Unit Precious Metals Refining*             | BELGIUM                  |
| Gold     | AngloGold Ashanti Corrego do Sitio Mineracao*                    | BRAZIL                   |
| Gold     | Marsam Metals*   | BRAZIL                   |
| Gold     | Asahi Refining Canada Ltd.*                                      | CANADA                   |
| Gold     | CCR Refinery - Glencore Canada Corporation*                      | CANADA                   |
| Gold     | Royal Canadian Mint*   | CANADA                   |
| Gold     | Planta Recuperadora de Metales SpA*                              | CHILE                    |
| Gold     | Daye Non-Ferrous Metals Mining Ltd.*                             | CHINA                    |
| Gold     | Gold Refinery of Zijin Mining Group Co., Ltd.*                   | CHINA                    |
| Gold     | Great Wall Precious Metals Co., Ltd. of CBPM*                    | CHINA                    |
| Gold     | Heraeus Metals Hong Kong Ltd.*                                   | CHINA                    |
| Gold     | Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.* | CHINA                    |
| Gold     | Jiangxi Copper Co., Ltd.*  | CHINA                    |
| Gold     | Metalor Technologies (Hong Kong) Ltd.*                           | CHINA                    |
| Gold     | Metalor Technologies (Suzhou) Ltd.*                              | CHINA                    |
| Gold     | Shandong Gold Smelting Co., Ltd.*                                | CHINA                    |
| Gold     | Shandong Zhaojin Gold & Silver Refinery Co., Ltd.*               | CHINA                    |
| Gold     | Sichuan Tianze Precious Metals Co., Ltd.*                        | CHINA                    |
| Gold     | Zhongyuan Gold Smelter of Zhongjin Gold Corporation*             | CHINA                    |
| Gold     | C.I Metales Procesados Industriales SAS**                        | COLOMBIA                 |
| Gold     | Sancus ZFS (L?Orfebre, SA)**                                     | COLOMBIA                 |
| Gold     | SAFINA A.S.*   | CZECHIA                  |
| Gold     | SAAMP*   | FRANCE                   |
| Gold     | WEEEREFINING**   | FRANCE                   |

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| Gold | Agosi AG*  | GERMANY     |
| Gold | Aurubis AG*  | GERMANY     |
| Gold | C. Hafner GmbH + Co. KG*                                       | GERMANY     |
| Gold | DODUCO Contacts and Refining GmbH*                             | GERMANY     |
| Gold | Heimerle + Meule GmbH*   | GERMANY     |
| Gold | Heraeus Germany GmbH Co. KG*                                   | GERMANY     |
| Gold | SAXONIA Edelmetalle GmbH*                                      | GERMANY     |
| Gold | WIELAND Edelmetalle GmbH*                                      | GERMANY     |
| Gold | Augmont Enterprises Private Limited**                          | INDIA       |
| Gold | Bangalore Refinery*  | INDIA       |
| Gold | GGC Gujrat Gold Centre Pvt. Ltd.**                             | INDIA       |
| Gold | MMTC-PAMP India Pvt., Ltd.*                                    | INDIA       |
| Gold | PT Aneka Tambang (Persero) Tbk*                                | INDONESIA   |
| Gold | 8853 S.p.A.*   | ITALY       |
| Gold | Chimet S.p.A.*   | ITALY       |
| Gold | Italpreziosi*  | ITALY       |
| Gold | Safimet S.p.A*   | ITALY       |
| Gold | T.C.A S.p.A*   | ITALY       |
| Gold | Aida Chemical Industries Co., Ltd.*                            | JAPAN       |
| Gold | Asahi Pretec Corp.*  | JAPAN       |
| Gold | Asaka Riken Co., Ltd.*   | JAPAN       |
| Gold | Chugai Mining*   | JAPAN       |
| Gold | Dowa*  | JAPAN       |
| Gold | Eco-System Recycling Co., Ltd. East Plant*                     | JAPAN       |
| Gold | Eco-System Recycling Co., Ltd. North Plant*                    | JAPAN       |
| Gold | Eco-System Recycling Co., Ltd. West Plant*                     | JAPAN       |
| Gold | Ishifuku Metal Industry Co., Ltd.*                             | JAPAN       |
| Gold | Japan Mint*  | JAPAN       |
| Gold | JX Nippon Mining & Metals Co., Ltd.*                           | JAPAN       |
| Gold | Kojima Chemicals Co., Ltd.*                                    | JAPAN       |
| Gold | Matsuda Sangyo Co., Ltd.*                                      | JAPAN       |
| Gold | Mitsubishi Materials Corporation*                              | JAPAN       |
| Gold | Mitsui Mining and Smelting Co., Ltd.*                          | JAPAN       |
| Gold | Nihon Material Co., Ltd.*                                      | JAPAN       |
| Gold | Ohura Precious Metal Industry Co., Ltd.*                       | JAPAN       |
| Gold | Sumitomo Metal Mining Co., Ltd.*                               | JAPAN       |
| Gold | Tanaka Kikinzoku Kogyo K.K.*                                   | JAPAN       |
| Gold | Tokuriki Honten Co., Ltd.*                                     | JAPAN       |
| Gold | Yamakin Co., Ltd.*   | JAPAN       |
| Gold | Yokohama Metal Co., Ltd.*                                      | JAPAN       |
| Gold | Kazzinc*   | KAZAKHSTAN  |
| Gold | TOO Tau-Ken-Altyn*   | KAZAKHSTAN  |
| Gold | Kyrgyzaltyn JSC  | KYRGYZSTAN  |
| Gold | Metalurgica Met-Mex Penoles S.A. De C.V.*                      | MEXICO      |
| Gold | REMONDIS PMR B.V.*   | NETHERLANDS |
| Gold | Bangko Sentral ng Pilipinas (Central Bank of the Philippines)* | PHILIPPINES |

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| Gold   | KGHM Polska Miedz Spolka Akcyjna*  | POLAND                   |
| Gold   | JSC Novosibirsk Refinery*  | RUSSIA                   |
| Gold   | JSC Uralelectromed*  | RUSSIA                   |
| Gold   | Moscow Special Alloys Processing Plant*                                      | RUSSIA                   |
| Gold   | OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)* | RUSSIA                   |
| Gold   | Prioksky Plant of Non-Ferrous Metals*  | RUSSIA                   |
| Gold   | SOE Shyolkovsky Factory of Secondary Precious Metals*                        | RUSSIA                   |
| Gold   | Metalor Technologies (Singapore) Pte., Ltd.*                                 | SINGAPORE                |
| Gold   | AU Traders and Refiners  | SOUTH AFRICA             |
| Gold   | Metal Concentrators SA (Pty) Ltd.*   | SOUTH AFRICA             |
| Gold   | Rand Refinery (Pty) Ltd.*  | SOUTH AFRICA             |
| Gold   | DSC (Do Sung Corporation)*   | SOUTH KOREA              |
| Gold   | Korea Zinc Co., Ltd.*  | SOUTH KOREA              |
| Gold   | LS-NIKKO Copper Inc.*  | SOUTH KOREA              |
| Gold   | LT Metal Ltd.*   | SOUTH KOREA              |
| Gold   | NH Recytech Company*   | SOUTH KOREA              |
| Gold   | Samduck Precious Metals*   | SOUTH KOREA              |
| Gold   | SungEel HiMetal Co., Ltd.*   | SOUTH KOREA              |
| Gold   | Torecom*   | SOUTH KOREA              |
| Gold   | SEMPSA Joyeria Plateria S.A.*  | SPAIN                    |
| Gold   | Boliden AB*  | SWEDEN                   |
| Gold   | Argor-Heraeus S.A.*  | SWITZERLAND              |
| Gold   | Cendres + Metaux S.A.*   | SWITZERLAND              |
| Gold   | Metalor Technologies S.A.*   | SWITZERLAND              |
| Gold   | PAMP S.A.*   | SWITZERLAND              |
| Gold   | PX Precinox S.A.*  | SWITZERLAND              |
| Gold   | Valcambi S.A.*   | SWITZERLAND              |
| Gold   | Singway Technology Co., Ltd.*  | TAIWAN                   |
| Gold   | Solar Applied Materials Technology Corp.*                                    | TAIWAN                   |
| Gold   | Umicore Precious Metals Thailand*  | THAILAND                 |
| Gold   | Istanbul Gold Refinery*  | TURKEY                   |
| Gold   | Nadir Metal Rafineri San. Ve Tic. A.S.*                                      | TURKEY                   |
| Gold   | Al Etihad Gold Refinery DMCC*  | UNITED ARAB EMIRATES     |
| Gold   | Emirates Gold DMCC*  | UNITED ARAB EMIRATES     |
| Gold   | Advanced Chemical Company*   | UNITED STATES OF AMERICA |
| Gold   | Alexy Metals**   | UNITED STATES OF AMERICA |
| Gold   | Asahi Refining USA Inc.*   | UNITED STATES OF AMERICA |
| Gold   | Geib Refining Corporation*   | UNITED STATES OF AMERICA |
| Gold   | Kennecott Utah Copper LLC*   | UNITED STATES OF AMERICA |
| Gold   | Materion*  | UNITED STATES OF AMERICA |
| Gold   | Metalor USA Refining Corporation*  | UNITED STATES OF AMERICA |
| Gold   | United Precious Metal Refining, Inc.*  | UNITED STATES OF AMERICA |
| Gold   | Almalyk Mining and Metallurgical Complex (AMMC)*                             | UZBEKISTAN               |
| Gold   | Navoi Mining and Metallurgical Combinat*                                     | UZBEKISTAN               |
| Cobalt | Murrin Murrin Nickel Cobalt Plant**  | AUSTRALIA                |

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| Cobalt | Umicore Olen**   | BELGIUM                          |
| Cobalt | Port Colborne Refinery   | CANADA                           |
| Cobalt | Vale ? Long Harbour Processing Plant (LHPP)                    | CANADA                           |
| Cobalt | Ganzhou Highpower Technology Co., Ltd.**                       | CHINA                            |
| Cobalt | Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.**     | CHINA                            |
| Cobalt | Zhejiang Huayou Cobalt Company Limited**                       | CHINA                            |
| Cobalt | Quzhou Huayou Cobalt New Material Co., Ltd.**                  | CHINA                            |
| Cobalt | Guangdong Jiana Energy Technology Co., Ltd.**                  | CHINA                            |
| Cobalt | Ganzhou Tengyuan Cobalt New Material Co., Ltd.**               | CHINA                            |
| Cobalt | Hunan CNGR New Energy Science & Technology Co., Ltd.**         | CHINA                            |
| Cobalt | Jingmen GEM Co., Ltd.**  | CHINA                            |
| Cobalt | New Era Group Zhejiang Zhongneng Cycle Technology Co., Ltd.**  | CHINA                            |
| Cobalt | Hunan Yacheng New Materials Co., Ltd.**                        | CHINA                            |
| Cobalt | Zhejiang Greatpower Cobalt Materials Co., Ltd.**               | CHINA                            |
| Cobalt | Ningbo Hubang New Material Co., Ltd.**                         | CHINA                            |
| Cobalt | Guangxi Yinyi Advanced Material Co., Ltd.*                     | CHINA                            |
| Cobalt | Gem (Jiangsu) Cobalt Industry Co., Ltd.*                       | CHINA                            |
| Cobalt | Jiangsu Xiongfeng Technology Co., Ltd.*                        | CHINA                            |
| Cobalt | Tianjin Maolian Science & Technology Co., Ltd.*                | CHINA                            |
| Cobalt | Nantong Xinwei Nickel Cobalt Technology Development Co., Ltd.* | CHINA                            |
| Cobalt | Zhuhai Kelixin Metal Materials Co., Ltd.*                      | CHINA                            |
| Cobalt | Jiangxi Jiangwu Cobalt industrial Co., Ltd.*                   | CHINA                            |
| Cobalt | Hunan Shiji Yintian New Material Co., Ltd.*                    | CHINA                            |
| Cobalt | Chizhou CN New Materials and Technology Co., Ltd.*             | CHINA                            |
| Cobalt | Gangzhou Yi Hao Umicore Industry Co.                           | CHINA                            |
| Cobalt | Hunan Brunp Recycling Technology Co., Ltd.                     | CHINA                            |
| Cobalt | Nanjing Hanrui Cobalt  | CHINA                            |
| Cobalt | Ningbo Yanmen Chemical Co., Ltd.                               | CHINA                            |
| Cobalt | Jiangxi Rui da Xinnengyuan Technology Co., Ltd.                | CHINA                            |
| Cobalt | Fairsky Industrial Co., Limited                                | CHINA                            |
| Cobalt | Hunan Jinxin New Material Holding Co., Ltd.                    | CHINA                            |
| Cobalt | Mechema Chemicals shang-yu                                     | CHINA                            |
| Cobalt | XTC New Energy Materials (Xiamen) LTD.                         | CHINA                            |
| Cobalt | Xiangtan Huacheng Nickel Cobalt New Material Co., Ltd.         | CHINA                            |
| Cobalt | Kamoto Copper Company**  | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt | Chemaf Etoile**  | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt | Chemaf Usoke**   | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt | Societe pour le Traitment du Terril de Lubumbashi (STL)*       | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt | La Compagnie de Traitement des Rejets de Kingamyambo S.A.*     | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt | METAL MINES SARL   | DEMOCRATIC REPUBLIC OF THE CONGO |

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| Cobalt   | SOCIETE MINIERE DU KATANGA (SOMIKA SARL)                  | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt   | Tenke Fungurume Mining SA                                 | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt   | Ruashi Mining SAS   | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt   | MKM - La Miniere de Kalumbwe Myunga                       | DEMOCRATIC REPUBLIC OF THE CONGO |
| Cobalt   | Umicore Finland Oy**                                      | FINLAND                          |
| Cobalt   | NORILSK NICKEL HARJAVALTA OY*                             | FINLAND                          |
| Cobalt   | PT Mechema Indonesia                                      | INDONESIA                        |
| Cobalt   | Niihama Nickel Refinery, Sumitomo Metal Mining**          | JAPAN                            |
| Cobalt   | Dynatec Madagascar Company                                | MADAGASCAR                       |
| Cobalt   | Compagnie de Tifnout Tiranimine**                         | MOROCCO                          |
| Cobalt   | Mine de Bou-Azzer**                                       | MOROCCO                          |
| Cobalt   | Glencore Nikkelverk Refinery                              | NORWAY                           |
| Cobalt   | JSC Kolskaya Mining and Metallurgical Company (Kola MMC)* | RUSSIA                           |
| Cobalt   | SungEel HiTech Co., Ltd.**                                | SOUTH KOREA                      |
| Cobalt   | Cosmo Chemical, Ltd.**                                    | SOUTH KOREA                      |
| Cobalt   | Mechema Korea, Co., Ltd.                                  | SOUTH KOREA                      |
| Cobalt   | CoreMax Corporation**                                     | TAIWAN                           |
| Cobalt   | Mechema Taiwan Plant 2*                                   | TAIWAN                           |
| Cobalt   | Mechema Taiwan Plant 1                                    | TAIWAN                           |
| Cobalt   | Mechema Chemicals (Thailand) Co., Ltd.                    | THAILAND                         |
| Cobalt   | ICoNiChem   | UNITED KINGDOM                   |
| Aluminum | Aluar (Aluminio Argentino)                                | ARGENTINA                        |
| Aluminum | Rio Tinto (Bell Bay) Ltd.                                 | AUSTRALIA                        |
| Aluminum | Hydro Alunorte  | BRAZIL                           |
| Aluminum | Bratsk Aluminium Works-BrAZ                               | RUSSIA                           |
| Aluminum | Krasnoyarsk Aluminium Works – KrAZ                        | RUSSIA                           |
| Aluminum | Sayan Aluminium Works – SaAZ                              | RUSSIA                           |
| Copper   | Glencore Mount Isa Mines Ltd.                             | AUSTRALIA                        |
| Copper   | Glencore Sudbury  | CANADA                           |
| Copper   | Vale Sudbury smelter                                      | CANADA                           |
| Copper   | Glencore CCR Refinery                                     | CANADA                           |
| Copper   | Glencore Horne Smelter                                    | CANADA                           |
| Copper   | Codelco Ventanas  | CHILE                            |
| Copper   | Jiangsu Refining Advanced Materials                       | CHINA                            |
| Copper   | Yunnan Copper Industry Group                              | CHINA                            |
| Copper   | Boliden Harjavalta  | FINLAND                          |
| Copper   | Aurubis   | GERMANY                          |
| Copper   | Norddeutsche Affinerie AG                                 | GERMANY                          |
| Copper   | JX Metals Smelting Co., Ltd. - Hitachi                    | JAPAN                            |
| Copper   | JX Metals Smelting Co., Ltd. - Saganoseki                 | JAPAN                            |
| Copper   | Mitsubishi Materials Corp. - Naoshima                     | JAPAN                            |
| Copper   | Mitsubishi Materials Corp. - Sakai                        | JAPAN                            |
| Copper   | Mitsui Kinzoku Kamioka Mining and Smelting Co             | JAPAN                            |



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| Copper | Mitsui Mining & Smelting - Hibi Kyodo                    | JAPAN                    |
| Copper | Onahama Smelting & Refining Co. Ltd.                     | JAPAN                    |
| Copper | Sumitomo Metal Mining Co. Ltd. (Toyo Smelter & Refinery) | JAPAN                    |
| Copper | Korea Zinc - Onsan Refinery                              | SOUTH KOREA              |
| Copper | LS-Nikko Copper  | SOUTH KOREA              |
| Copper | Glencore International                                   | PHILIPPINES              |
| Copper | ASARCO Incorporated (Grupo Mexico S.A. de C.V.) - Hayden | UNITED STATES OF AMERICA |
| Copper | Freeport McMoRan (Miami Refinery)                        | UNITED STATES OF AMERICA |
| Copper | Rio Tinto Kennecott Utah Copper Co.                      | UNITED STATES OF AMERICA |
| Copper | Total Metal Recycling                                    | UNITED STATES OF AMERICA |
| Nickel | Metallo Aurubis Belgium                                  | BELGIUM                  |
| Nickel | Umicore CSM Olen   | BELGIUM                  |
| Nickel | Fort Saskatchewan  | CANADA                   |
| Nickel | Glencore Sudbury Integrated Nickel Operations            | CANADA                   |
| Nickel | Vale Long Harbour Processing Plant                       | CANADA                   |
| Nickel | Vale Port Colborne Nickel Refinery                       | CANADA                   |
| Nickel | Jinchuan Nonferrous Co.                                  | CHINA                    |
| Nickel | Boliden Harjavalta                                       | FINLAND                  |
| Nickel | Norlisk Nickel Harjavalta Plant                          | FINLAND                  |
| Nickel | Eramet   | FRANCE                   |
| Nickel | PT Vale Indonesia  | INDONESIA                |
| Nickel | Harima Refinery (Sumitomo Metal Mining)                  | JAPAN                    |
| Nickel | Niihama Nickel Refinery (Sumitomo Metal Mining)          | JAPAN                    |
| Nickel | Vale Matsusaka refinery                                  | JAPAN                    |
| Nickel | Korea Nickel (Korea Zinc)                                | SOUTH KOREA              |
| Nickel | POSCO  | SOUTH KOREA              |
| Nickel | LS-Nikko Copper  | SOUTH KOREA              |
| Nickel | Glencore Nikkelverk AS                                   | NORWAY                   |
| Nickel | Mitsui & Co (Coral Bay)                                  | PHILIPPINES              |
| Nickel | Mitsui & Co (Taganito HPAL Nickel)                       | PHILIPPINES              |
| Nickel | Vale Europe Ltd Clydach Refinery                         | UNITED KINGDOM           |
| Nickel | P. Kay Metal   | UNITED STATES OF AMERICA |
| Silver | Umicore SA, Business Unit, Precious Metals               | BELGIUM                  |
| Silver | Codelco Chile  | CHILE                    |
| Silver | Jiyuan Wanyang Smeltery Group Co. Ltd                    | CHINA                    |
| Silver | Heraeus Precious Metals GmbH & Co. KG                    | GERMANY                  |
| Silver | Heimerle + Meule GmbH                                    | GERMANY                  |
| Silver | Asahi Pretec Corp  | JAPAN                    |
| Silver | Mitsubishi Materials Corp.                               | JAPAN                    |
| Silver | Mitsui Mining & Smelting Co., Ltd - Kamioka              | JAPAN                    |
| Silver | Mitsui Mining & Smelting Co., Ltd - Takehara             | JAPAN                    |
| Silver | Sumitomo Metal Mining Co., Ltd.                          | JAPAN                    |
| Silver | Toho Zinc Co., Ltd                                       | JAPAN                    |
| Silver | Aida Chemical Industries Co., Ltd.                       | JAPAN                    |
| Silver | Yokohama Metal Co., Ltd.                                 | JAPAN                    |
| Silver | Met-Mex Peñoles SA                                       | MEXICO                   |

|        |                                 |                          |
|--------|---------------------------------|--------------------------|
| Silver | Korea Zinc Co., Ltd             | SOUTH KOREA              |
| Silver | LS-Nikko Copper                 | SOUTH KOREA              |
| Silver | Pyromet                         | UNITED STATES OF AMERICA |
| Silver | Mid-States Recycling & Refining | UNITED STATES OF AMERICA |
| Silver | Metalor USA Refining Corp.      | UNITED STATES OF AMERICA |

† Smelter and refiner facility names and locations as reported by the RMI as of March 4, 2022.

\* Denotes smelters and refiners which are conformant to a responsible mineral sourcing validation program as of March 4, 2022.

\*\* Denotes smelters and refiners which are participating in a responsible mineral sourcing validation program as of March 4, 2022.

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