

Responsible Minerals Report

By obtaining 100% of CMRTs (Conflict Minerals Reporting Templates) and CRTs (Cobalt Report Templates) from our primary suppliers who trade raw materials that are supplied to Samsung Electro-Mechanics' manufactured products (MLCCs, camera modules, PCBs, etc.), we are carrying out activities to prevent and rectify issues by reviewing investigation information reliability and the usage of certified smelters as well as through risk analysis, and should any risks be identified in the partner registration process, we are conducting regulatory response activities, such as limiting transaction registrations.

Through such activities, Samsung Electro-Mechanics confirmed that its 3TG (Tantalum, Tin, Tungsten, Gold) and Cobalt were supplied through 100% certified smelters in 2021, and we will carry out the following to continue to allow for the supply of such minerals by eliminating any risk of our usage smelters within the supply chain.

- For all of our smelters, we shall only use certified smelters and immediately induce RMAP (Responsible Minerals Assurance Process) certification for non-certified smelters or ban them to manage responsible minerals within the supply chain.
- Through supply chain due diligence and training, we shall continue to make efforts to encourage the voluntary response of our suppliers against responsible mineral regulations.
- Furthermore, Samsung Electro-Mechanics shall pay great attention not only to unethically mined minerals, but also to human rights violations and environmental destruction, and shall endeavor to ensure the responsible procurement of minerals by its partners.

※ Conflict Mineral Investigation Results

By obtaining 100% of CMRTs (Conflict Minerals Reporting Templates) and CRTs (Cobalt Report Templates) from our primary suppliers who trade raw materials that are supplied to Samsung Electro-Mechanics' manufactured products (MLCCs, camera modules, PCBs, etc.), we are carrying out activities to prevent and rectify issues by reviewing investigation information reliability and the usage of certified smelters as well as through risk analysis, and should any risks be identified in the partner registration process, we are conducting regulatory response activities, such as limiting transaction registrations, resulting in the following results.

1) Usage Smelter Status by Mineral Type within the Supply Chain

(As of end of 2021, Unit: Number of smelters)

Category	Certified smelters	Certification-in-progress smelters	Subtotal	Certification rate (%)
Tantalum	37	-	37	100%
Tin	52	-	52	100%
Tungsten	39	-	39	100%
Gold	107	-	107	100%
Cobalt	34	-	34	100%
Total	269	-	269	100%

2) Usage Smelter Status by Year

Category	Certified smelters	Certification-in-progress smelters	Subtotal	Certification rate (%)
2021	269	-	269	100%
2020	250	-	250	100%
2019	228	-	228	100%
2018	166	-	166	100%

We have confirmed that among the 269 smelters used within our company's supply chain, 100% of them are all certified smelters. (Non-certified smelters not included)

Attachment: Usage Smelter List (certified smelters and refineries)

Name of Mineral	Name of Smelter	Nation
Tantalum	Asaka Riken Co., Ltd.	JAPAN
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Tantalum	Exotech Inc.	UNITED STATES OF AMERICA
Tantalum	F&X Electro-Materials Ltd.	CHINA
Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	CHINA
Tantalum	Jiujiang JinXin Nonferrous Metals Co., Ltd.	CHINA
Tantalum	Jiujiang Tanbre Co., Ltd.	CHINA
Tantalum	LSM Brasil S.A.	BRAZIL
Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
Tantalum	Mineracao Taboca S.A.	BRAZIL
Tantalum	Mitsui Mining & Smelting	JAPAN
Tantalum	NPM Silmet AS	ESTONIA
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA
Tantalum	Quantum Clean	UNITED STATES OF AMERICA
Tantalum	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION
Tantalum	Taki Chemical Co., Ltd.	JAPAN
Tantalum	Telex Metals	UNITED STATES OF AMERICA
Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
Tantalum	FIR Metals & Resource Ltd.	CHINA
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA
Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	KEMET Blue Metals	MEXICO
Tantalum	H.C. Starck Co., Ltd.	THAILAND
Tantalum	H.C. Starck Tantalum and Niobium GmbH	GERMANY
Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY
Tantalum	H.C. Starck Inc.	UNITED STATES OF AMERICA
Tantalum	H.C. Starck Ltd.	JAPAN
Tantalum	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Tantalum	Global Advanced Metals Aizu	JAPAN

Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum	Jiangxi Tuohong New Raw Material	CHINA
Tantalum	PRG Doel	NORTH MACEDONIA
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Tin	Alpha	UNITED STATES OF AMERICA
Tin	Dowa	JAPAN
Tin	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)
Tin	Fenix Metals	POLAND
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA
Tin	Gejiu Kai Meng Industry and Trade LLC	CHINA
Tin	China Tin Group Co., Ltd.	CHINA
Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
Tin	Metallic Resources, Inc.	UNITED STATES OF AMERICA
Tin	Mineracao Taboca S.A.	BRAZIL
Tin	Minsur	PERU
Tin	Mitsubishi Materials Corporation	JAPAN
Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
Tin	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)
Tin	PT Artha Cipta Langgeng	INDONESIA
Tin	PT Babel Surya Alam Lestari	INDONESIA
Tin	PT Mitra Stania Prima	INDONESIA
Tin	PT Prima Timah Utama	INDONESIA
Tin	PT Refined Bangka Tin	INDONESIA
Tin	PT Stanindo Inti Perkasa	INDONESIA
Tin	PT Timah Tbk Kundur	INDONESIA
Tin	PT Timah Tbk Mentok	INDONESIA
Tin	Rui Da Hung	TAIWAN, PROVINCE OF CHINA
Tin	Soft Metais Ltda.	BRAZIL
Tin	Thaisarco	THAILAND
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA
Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Tin	Yunnan Tin Company, Ltd.	CHINA
Tin	Magnu's Mineraiis Metais e Ligas Ltda.	BRAZIL
Tin	Melt Metais e Ligas S.A.	BRAZIL
Tin	PT ATD Makmur Mandiri Jaya	INDONESIA

Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
Tin	PT Rajehan Ariq	INDONESIA
Tin	Resind Industria e Comercio Ltda.	BRAZIL
Tin	Metallo Belgium N.V.	BELGIUM
Tin	Metallo Spain S.L.U.	SPAIN
Tin	Thai Nguyen Mining and Metallurgy Co., Ltd.	VIET NAM
Tin	PT Menara Cipta Mulia	INDONESIA
Tin	HuiChang Hill Tin Industry Co., Ltd.	CHINA
Tin	Smelter not listed	CHINA
Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
Tin	PT Bangka Serumpun	INDONESIA
Tin	Tin Technology & Refining	UNITED STATES OF AMERICA
Tin	Ma'anshan Weitai Tin Co., Ltd.	CHINA
Tin	PT Rajawali Rimba Perkasa	INDONESIA
Tin	Luna Smelter, Ltd.	RWANDA
Tin	Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CHINA
Tungsten	A.L.M.T. Corp.	JAPAN
Tungsten	Kennametal Huntsville	UNITED STATES OF AMERICA
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	CHINA
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Tungsten	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA
Tungsten	Hunan Chenzhou Mining Co., Ltd.	CHINA
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA
Tungsten	Japan New Metals Co., Ltd.	JAPAN
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Tungsten	Kennametal Fallon	UNITED STATES OF AMERICA
Tungsten	Wolfram Bergbau und Hutten AG	AUSTRIA
Tungsten	Xiamen Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA
Tungsten	Jiangxi Xincheng Tungsten Industry Co., Ltd.	CHINA
Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA
Tungsten	Asia Tungsten Products Vietnam Ltd.	VIET NAM

Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA
Tungsten	H.C. Starck Tungsten GmbH	GERMANY
Tungsten	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Tungsten	Masan Tungsten Chemical LLC (MTC)	VIET NAM
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA
Tungsten	Niagara Refining LLC	UNITED STATES OF AMERICA
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Tungsten	Hydrometallurg, JSC	RUSSIAN FEDERATION
Tungsten	Unecha Refractory metals plant	RUSSIAN FEDERATION
Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA
Tungsten	ACL Metais Eireli	BRAZIL
Tungsten	Woltech Korea Co., Ltd.	KOREA, REPUBLIC OF
Tungsten	Moliren Ltd.	RUSSIAN FEDERATION
Tungsten	Hunan Litian Tungsten Industry Co., Ltd.	CHINA
Tungsten	KGETS Co., Ltd.	KOREA, REPUBLIC OF
Tungsten	Fujian Ganmin RareMetal Co., Ltd.	CHINA
Tungsten	Lianyou Metals Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
Gold	Aida Chemical Industries Co., Ltd.	JAPAN
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY
Gold	Imalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Gold	Argor-Heraeus S.A.	SWITZERLAND
Gold	Asahi Pretec Corp.	JAPAN
Gold	Asaka Riken Co., Ltd.	JAPAN
Gold	Aurubis AG	GERMANY
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES
Gold	Boliden AB	SWEDEN
Gold	C. Hafner GmbH + Co. KG	GERMANY
Gold	CCR Refinery - Glencore Canada Corporation	CANADA
Gold	Cendres + Metaux S.A.	SWITZERLAND
Gold	Chimet S.p.A.	ITALY
Gold	Chugai Mining	JAPAN
Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Gold	DODUCO Contacts and Refining GmbH	GERMANY
Gold	Dowa	JAPAN
Gold	Eco-System Recycling Co., Ltd. East Plant	JAPAN

Gold	OJSC Novosibirsk Refinery	RUSSIAN FEDERATION
Gold	LT Metal Ltd.	KOREA, REPUBLIC OF
Gold	Heimerle + Meule GmbH	GERMANY
Gold	Heraeus Metals Hong Kong Ltd.	CHINA
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA
Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
Gold	Istanbul Gold Refinery	TURKEY
Gold	Japan Mint	JAPAN
Gold	Jiangxi Copper Co., Ltd.	CHINA
Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Gold	Asahi Refining Canada Ltd.	CANADA
Gold	JSC Urals Electromet	RUSSIAN FEDERATION
Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Gold	Kazzinc	KAZAKHSTAN
Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Gold	Kojima Chemicals Co., Ltd.	JAPAN
Gold	Kyrgyzaltyn JSC	KYRGYZSTAN
Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Gold	Materion	UNITED STATES OF AMERICA
Gold	Matsuda Sangyo Co., Ltd.	JAPAN
Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Gold	Metalor Technologies S.A.	SWITZERLAND
Gold	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Gold	Mitsubishi Materials Corporation	JAPAN
Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION
Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Gold	Navoi Mining and Metallurgical Combinat	UZBEKISTAN
Gold	Nihon Material Co., Ltd.	JAPAN
Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant"	RUSSIAN FEDERATION
Gold	PAMP S.A.	SWITZERLAND
Gold	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION
Gold	PT Aneka Tambang (Persero) Tbk	INDONESIA
Gold	PX Precinox S.A.	SWITZERLAND

Gold	Rand Refinery (Pty) Ltd.	SOUTH AFRICA
Gold	Royal Canadian Mint	CANADA
Gold	Samduck Precious Metals	KOREA, REPUBLIC OF
Gold	SEMPSA Joyeria Plateria S.A.	SPAIN
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION
Gold	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN
Gold	Tanaka Kikinzoku Kogyo K.K.	JAPAN
Gold	The Refinery of Shandong Gold Mining Co., Ltd.	CHINA
Gold	Tokuriki Honten Co., Ltd.	JAPAN
Gold	Torecom	KOREA, REPUBLIC OF
Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Gold	Valcambi S.A.	SWITZERLAND
Gold	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA
Gold	Yamakin Co., Ltd.	JAPAN
Gold	Yokohama Metal Co., Ltd.	JAPAN
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Gold	SAFINA A.S.	CZECHIA
Gold	Umicore Precious Metals Thailand	THAILAND
Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
Gold	Singway Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
Gold	T.C.A S.p.A	ITALY
Gold	REMONDIS PMR B.V.	NETHERLANDS
Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Gold	Marsam Metals	BRAZIL
Gold	TOO Tau-Ken-Altyn	KAZAKHSTAN
Gold	SAAMP	FRANCE
Gold	L'Orfebre S.A.	ANDORRA
Gold	8853 S.p.A.	ITALY
Gold	Italpreziosi	ITALY

Gold	SAXONIA Edelmetalle GmbH	GERMANY
Gold	WIELAND Edelmetalle GmbH	GERMANY
Gold	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA
Gold	AU Traders and Refiners	SOUTH AFRICA
Gold	Bangalore Refinery	INDIA
Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
Gold	Planta Recuperadora de Metales SpA	CHILE
Gold	Safimet S.p.A	ITALY
Gold	DS PRETECH Co., Ltd.	KOREA, REPUBLIC OF
Gold	Eco-System Recycling Co., Ltd. North Plant	JAPAN
Gold	Eco-System Recycling Co., Ltd. West Plant	JAPAN
Cobalt	Gem (Jiangsu) Cobalt Industry Co., Ltd.	CHINA
Cobalt	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA
Cobalt	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA
Cobalt	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA
Cobalt	Tianjin Maolian Science & Technology Co., Ltd.	CHINA
Cobalt	Hunan Brunp Recycling Technology Co., Ltd.	CHINA
Cobalt	Nantong Xinwei Nickel Cobalt Technology Development Co., Ltd.	CHINA
Cobalt	Zhejiang Huayou Cobalt Company Limited	CHINA
Cobalt	Freeport Kokkola	FINLAND
Cobalt	Gangzhou Yi Hao Umicore Industry Co.	CHINA
Cobalt	Umicore Olen	BELGIUM
Cobalt	Dynatec Madagascar Company	MADAGASCAR
Cobalt	JSC Kolskaya Mining and Metallurgical Company (Kola MMC)	RUSSIAN FEDERATION
Cobalt	Fort Saskatchewan Metals Facility	CANADA
Cobalt	Nanjing Hanrui Cobalt	CHINA
Cobalt	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA
Cobalt	Sumitomo Metal Mining	JAPAN
Cobalt	Mine de Bou-Azzer	MOROCCO
Cobalt	Compagnie de Tifnout Tiranimine	MOROCCO
Cobalt	Guangdong Jiana Energy Technology Co., Ltd.	CHINA
Cobalt	iangsu Xiongfeng Technology Co., Ltd.	CHINA
Cobalt	SungEel HiTech Co., Ltd.	KOREA, REPUBLIC OF
Cobalt	Jiangxi Jiangwu Cobalt industrial Co., Ltd.	CHINA
Cobalt	Jingmen GEM Co., Ltd.	CHINA
Cobalt	Ganzhou Highpower Technology Co., Ltd.	CHINA
Cobalt	NORILSK NICKEL HARJAVALTA OY	FINLAND
Cobalt	New Era Group Zhejiang Zhongneng Cycle Technology Co., Ltd.	CHINA

Cobalt	Glencore Nikkelverk Refinery	NORWAY
Cobalt	Hunan Yacheng New Materials Co., Ltd.	CHINA
Cobalt	Murrin Murrin Nickel Cobalt Plant	AUSTRALIA
Cobalt	Hunan Zoomwe New Energy Science & Technology Co., Ltd.	CHINA
Cobalt	Cosmo EcoChem Co., Ltd.	KOREA, REPUBLIC OF
Cobalt	Ningbo Yanmen Chemical Co., Ltd.	CHINA
Cobalt	Jiangxi Rui da Xinnengyuan Technology Co., Ltd.	CHINA