

Responsible Minerals Report

100%获取为三星电机生产的产品(MLCC, Camera module, PCB 等)供应原材料的第一轮合作方的CMRT(Conflict Minerals Reporting Template)、CRT(Cobalt Report Template), 通过调查信息信赖度及认证冶炼厂使用研讨、Risk 分析, 防止问题发生, 进行改善活动, 在合作方注册阶段有 Risk 时, 则进行交易注册限制等规制应对活动。

三星电机通过这些活动, 通过 2020 年度 100% 认证冶炼厂, 确认 3TG(Tantalum, tin, tungsten, gold) 及钴的供应, 为实现供应链内使用冶炼厂无 Risk 地持续供应, 做出了如下积极的努力。

- 所有冶炼厂都将使用认证冶炼厂, 未认证的冶炼厂将立即引导进行 RMAP(Responsible Minerals Assurance Process) 认证, 对供应链内的责任矿物进行管理, 以确保取得认证 or 禁止使用。
- 通过供应链实地调查及教育, 三星电机将会继续努力, 使合作方能够自发地应对责任矿物规制。
- 同时, 三星电机不仅关注非正常采挖的矿物, 还会关注人权侵害、环境破坏等问题, 尽全力让合作方也能负责任地进行矿物调度。

※ 争议矿物调查结果

100%获取为三星电机生产的产品(MLCC, Camera module, PCB 等)供应原材料的第一轮合作方的CMRT(Conflict Minerals Reporting Template)、CRT(Cobalt Report Template), 通过调查信息信赖度及认证冶炼厂使用研讨、Risk 分析, 防止问题发生, 进行改善活动, 在合作方注册阶段有 Risk 时, 则通过进行交易注册限制等规制应对活动, 得出如下结果。

1) 供应链内各种矿物使用冶炼厂现状

(2020 年末标准, 单位: 处)

分类	认证冶炼厂	认证中冶炼厂	合计	认证 (%)
Tantalum	37	-	37	100%
Tin	53	-	53	100%
Tungsten	36	-	36	100%
Gold	101	-	101	100%
Cobalt	23	-	23	100%
Total	250	-	250	100%

2) 各年度使用冶炼厂现状

分类	认证冶炼厂	认证中冶炼厂	合计	认证 (%)
2020	250	-	250	100%
2019	228	-	228	100%
2018	166	-	166	100%

本公司供应链内使用的冶炼厂共有 250 家，100% 都使用了认证冶炼厂。(不含未认证冶炼厂)

附件：使用冶炼厂 List (认证冶炼厂及精炼厂)

矿物名称	冶炼厂名称	国家
Tantalum	Asaka Riken Co., Ltd.	JAPAN
Tantalum	QuantumClean	UNITED STATES OF AMERICA
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	CHINA
Tantalum	D Block Metals, LLC	UNITED STATES OF AMERICA
Tantalum	Exotech Inc.	UNITED STATES OF AMERICA
Tantalum	F&X Electro-Materials Ltd.	CHINA
Tantalum	FIR Metals & Resource Ltd.	CHINA
Tantalum	Global Advanced Metals Aizu	JAPAN
Tantalum	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA
Tantalum	H.C. Starck Hermsdorf GmbH	GERMANY
Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	Jiangxi Tuohong New Raw Material	CHINA
Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA
Tantalum	KEMET Blue Metals	MEXICO
Tantalum	LSM Brasil S.A.	BRAZIL
Tantalum	Metallurgical Products India Pvt., Ltd.	INDIA
Tantalum	Mineracao Taboca S.A.	BRAZIL
Tantalum	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Tantalum	Power Resources Ltd.	MACEDONIA,
Tantalum	Resind Industria e Comercio Ltda.	BRAZIL
Tantalum	RFH Tantalum Smeltery Co., Ltd.	CHINA
Tantalum	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION
Tantalum	Telex Metals	UNITED STATES OF AMERICA
Tantalum	Ulba Metallurgical Plant JSC	KAZAKHSTAN
Tantalum	XinXing HaoRong Electronic Material Co., Ltd.	CHINA

Tantalum	NPM Silmet AS	ESTONIA
Tantalum	Taki Chemicals	JAPAN
Tantalum	H.C. Starck Co., Ltd.	THAILAND
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	H.C. Starck Tantalum and Niobium GmbH	GERMANY
Tantalum	Ningxia Orient Tantalum Industry Co., 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	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA
Tin	PT Stanindo Inti Perkasa	INDONESIA
Tin	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA
Tin	Operaciones Metalurgicas S.A.	BOLIVIA
Tin	PT Mitra Stania Prima	INDONESIA
Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA
Tin	Dowa	JAPAN
Tin	Fenix Metals	POLAND
Tin	PT Artha Cipta Langgeng	INDONESIA
Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA
Tin	PT Sukses Inti Makmur	INDONESIA
Tin	China Tin Group Co., Ltd.	CHINA
Tin	PT Menara Cipta Mulia	INDONESIA
Tin	PT Tinindo Inter Nusa	INDONESIA
Tin	PT Rajehan Ariq	INDONESIA
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND
Tin	Alpha	UNITED STATES OF AMERICA
Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA
Tin	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA
Tin	EM Vinto	BOLIVIA
Tin	Gejiu Fengming Metallurgy Chemical Plant	CHINA
Tin	Gejiu Kai Meng Industry and Trade LLC	CHINA
Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA
Tin	HuiChang Hill Tin Industry Co., Ltd.	CHINA
Tin	Jiangxi New Nanshan Technology Ltd.	CHINA
Tin	Magnu's Minerais Metais e Ligas Ltda.	BRAZIL
Tin	Melt Metais e Ligas S.A.	BRAZIL
Tin	Metallic Resources, Inc.	UNITED STATES OF AMERICA

Tin	Metallo Spain S.L.U.	SPAIN
Tin	Resind Industria e Comercio Ltda.	BRAZIL
Tin	Soft Metais Ltda.	BRAZIL
Tin	Tin Technology & Refining	UNITED STATES OF AMERICA
Tin	PT Prima Timah Utama	INDONESIA
Tin	CV Ayi Jaya	INDONESIA
Tin	PT ATD Makmur Mandiri Jaya	INDONESIA
Tin	Modeltech Sdn Bhd	MALAYSIA
Tin	PT Aries Kencana Sejahtera	INDONESIA
Tin	PT Lautan Harmonis Sejahtera	INDONESIA
Tin	PT Bangka Serumpun	INDONESIA
Tin	Yunnan Tin Company Limited	CHINA
Tin	Mineração Taboca S.A.	BRAZIL
Tin	Malaysia Smelting Corporation (MSC)	MALAYSIA
Tin	Thaisarco	THAILAND
Tin	Metallo Belgium N.V.	BELGIUM
Tin	White Solder Metalurgia e Mineracao Ltda.	BRAZIL
Tin	Minsur	PERU
Tin	PT Timah (Persero) Tbk Kundur	INDONESIA
Tin	PT Timah (Persero) Tbk Mentok	INDONESIA
Tin	Mitsubishi Materials Corporation	JAPAN
Tin	Thai Nguyen Mining and Metallurgy Co., Ltd.	VIET NAM
Tin	Rui Da Hung	TAIWAN, PROVINCE OF CHINA
Tin	O.M. Manufacturing Philippines, Inc.	PHILIPPINES
Tin	PT Refined Bangka Tin	INDONESIA
Tungsten	KGETS Co., Ltd.	KOREA, REPUBLIC OF
Tungsten	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES
Tungsten	ACL Metais Eireli	BRAZIL
Tungsten	Asia Tungsten Products Vietnam Ltd	VIET NAM
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA
Tungsten	Ganzhou Jiangwu Ferrotungsten 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	Hydrometallurg, JSC	RUSSIAN FEDERATION

Tungsten	Japan New Metals Co., Ltd.	JAPAN
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	Kennametal Fallon	UNITED STATES OF AMERICA
Tungsten	Kennametal Huntsville	UNITED STATES OF AMERICA
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	CHINA
Tungsten	Masan Tungsten Chemical LLC (MTC)	VIET NAM
Tungsten	Moliren Ltd.	RUSSIAN FEDERATION
Tungsten	Niagara Refining LLC	UNITED STATES OF AMERICA
Tungsten	Unecha Refractory metals plant	RUSSIAN FEDERATION
Tungsten	Woltech Korea Co., Ltd.	KOREA, REPUBLIC OF
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten Co., Ltd.	CHINA
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA
Tungsten	Wolfram Bergbau und Hütten AG	AUSTRIA
Tungsten	H.C. Starck Tungsten GmbH	GERMANY
Tungsten	A.L.M.T. Corp.	JAPAN
Tungsten	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA
Tungsten	H.C. Starck Smelting GmbH & Co. KG	GERMANY
Gold	Perth Mint	AUSTRALIA
Gold	Argor-Heraeus S.A.	SWITZERLAND
Gold	Matsuda Sangyo Co., Ltd.	JAPAN
Gold	Metalor Technologies S.A.	SWITZERLAND
Gold	Aida Chemical Industries Co., Ltd.	JAPAN
Gold	Asahi Pretec Corp.	JAPAN
Gold	Ishifuku Metal Industry Co., Ltd.	JAPAN
Gold	Kojima Chemicals Co., Ltd.	JAPAN
Gold	Nihon Material Co., Ltd.	JAPAN
Gold	Tokuriki Honten Co., Ltd.	JAPAN
Gold	Dowa	JAPAN
Gold	JX Nippon Mining & Metals Co., Ltd.	JAPAN
Gold	Mitsubishi Materials Corporation	JAPAN
Gold	Mitsui Mining and Smelting Co., Ltd.	JAPAN
Gold	Ohura Precious Metal Industry Co., Ltd.	JAPAN
Gold	Sumitomo Metal Mining Co., Ltd.	JAPAN

Gold	Heraeus Precious Metals GmbH & Co. KG	GERMANY
Gold	Asahi Refining USA Inc.	UNITED STATES OF AMERICA
Gold	Royal Canadian Mint	CANADA
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA
Gold	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA
Gold	AU Traders and Refiners	SOUTH AFRICA
Gold	Bangalore Refinery	INDIA
Gold	Cendres + Metaux S.A.	SWITZERLAND
Gold	DS PRETECH Co., Ltd.	KOREA, REPUBLIC OF
Gold	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF
Gold	Geib Refining Corporation	UNITED STATES OF AMERICA
Gold	Metalor Technologies (Suzhou) Ltd.	CHINA
Gold	Safimet S.p.A	ITALY
Gold	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF
Gold	Torecom	KOREA, REPUBLIC OF
Gold	Yokohama Metal Co., Ltd.	JAPAN
Gold	Asaka Riken Co., Ltd.	JAPAN
Gold	DODUCO Contacts and Refining GmbH	GERMANY
Gold	Eco-System Recycling Co., Ltd.	JAPAN
Gold	Emirates Gold DMCC	UNITED ARAB EMIRATES
Gold	HeeSung Metal Ltd.	KOREA, REPUBLIC OF
Gold	Italpreziosi	ITALY
Gold	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF
Gold	L'Orfebvre S.A.	ANDORRA
Gold	Marsam Metals	BRAZIL
Gold	Materion	UNITED STATES OF AMERICA
Gold	Ogussa Osterreichische Gold- und Silber- ScheideanstaltGmbH	AUSTRIA
Gold	Planta Recuperadora de Metales SpA	CHILE
Gold	REMONDIS PMR B.V.	NETHERLANDS
Gold	SAAMP	FRANCE
Gold	SAXONIA Edelmetalle GmbH	GERMANY
Gold	Singway Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA
Gold	Umicore Precious Metals Thailand	THAILAND
Gold	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA
Gold	WIELAND Edelmetalle GmbH	GERMANY
Gold	Yamakin Co., Ltd.	JAPAN

Gold	8853 S.p.A.	ITALY
Gold	Advanced Chemical Company	UNITED STATES OF AMERICA
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL
Gold	Asahi Refining Canada Ltd.	CANADA
Gold	Aurubis AG	GERMANY
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philip	pines) PHILIPPINES
Gold	Boliden AB	SWEDEN
Gold	C. Hafner GmbH + Co. KG	GERMANY
Gold	CCR Refinery - Glencore Canada Corporation	CANADA
Gold	Chimet S.p.A.	ITALY
Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA
Gold	Heimerle + Meule GmbH	GERMANY
Gold	Heraeus Metals Hong Kong Ltd.	CHINA
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share	CHINA
	Co., Ltd.	
Gold	Istanbul Gold Refinery	TURKEY
Gold	Japan Mint	JAPAN
Gold	Jiangxi Copper Co., Ltd.	CHINA
Gold	JSC Uralsktromed	RUSSIAN FEDERATION
Gold	Kazzinc	KAZAKHSTAN
Gold	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA
Gold	KGHM Polska Miedz Spolka Akcyjna	POLAND
Gold	Kyrgyzaltyn JSC	KYRGYZSTAN
Gold	Metalor Technologies (Hong Kong) Ltd.	CHINA
Gold	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE
Gold	Metalor USA Refining Corporation	UNITED STATES OF AMERICA
Gold	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO
Gold	MMTC-PAMP India Pvt., Ltd.	INDIA
Gold	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION
Gold	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY
Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals	RUSSIAN FEDERATION
	Plant"	
Gold	OJSC Novosibirsk Refinery	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	SEMPA Joyeria Plateria S.A.	SPAIN
Gold	Sichuan Tianze Precious Metals Co., Ltd.	CHINA
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION
Gold	T.C.A S.p.A	ITALY
Gold	The Refinery of Shandong Gold Mining Co., Ltd.	CHINA
Gold	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM
Gold	Valcambi S.A.	SWITZERLAND
Gold	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES
Gold	Tanaka Kikinzoku Kogyo K.K	JAPAN
Gold	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF
Cobalt	Freeport Cobalt Oy	FINLAND
Cobalt	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA
Cobalt	Tianjin Maolian Science & Technology Co., Ltd.	CHINA
Cobalt	Guangdong Jiana Energy Technology Co., Ltd.	CHINA
Cobalt	Jiangsu Xiongfeng Technology Co., Ltd.	CHINA
Cobalt	Hunan Zoomwe New Energy Science & Technology Co., Ltd.	CHINA
Cobalt	Umicore Olen	BELGIUM
Cobalt	Ganzhou Highpower Technology Co., Ltd.	CHINA
Cobalt	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA
Cobalt	Jingmen GEM Co., Ltd.	CHINA
Cobalt	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA
Cobalt	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA
Cobalt	Smelter Not Listed	JAPAN
Cobalt	NORILSK NICKEL HARJAVALTA OY	FINLAND
Cobalt	Fort Saskatchewan Metals Facility	CANADA
Cobalt	Gangzhou Yi Hao Umicore Industry Co.	CHINA
Cobalt	Gem (Jiangsu) Cobalt Industrial Co., Ltd.	CHINA
Cobalt	Hunan Brunp Recycling Technology Co., Ltd.	CHINA
Cobalt	SungEel HiTech Co.,Ltd.	KOREA, REPUBLIC OF
Cobalt	Zhejiang Huayou Cobalt Co.,Ltd.	CHINA
Cobalt	Smelter Not Listed	MADAGASCAR
Cobalt	Smelter Not Listed	NORWAY
Cobalt	Smelter Not Listed	RUSSIAN FEDERATION