

# Fairphone Suppliers, Smelters and Refiners

August 2018

# Table of Contents

**Introduction** p. 3

**List of Suppliers** p. 5

Our approach p. 6

Suppliers at a glance p. 7

List of Suppliers p. 8

**List of Smelters and Refiners** p. 17

Our approach p. 18

Smelters and refiners at a glance p. 19

List of Smelters and Refiners p. 21

## Transparency: the first step in fairer supply chains

Fairphone was founded with the aim of creating a positive impact on the value chain of consumer electronics. We began making phones to become part of the industry, gain a deeper understanding of how things work and what the issues are in order to affect change from the inside out. But you cannot change what you do not know. Therefore, the first and most crucial step in this process is gathering information.

Smartphones are intricate products made up of thousands of different components. Each of these parts comes from different suppliers and contain a wide variety of materials. As a result, our supply chain includes mines, smelters, refiners and different tiers of manufacturers that span the entire globe. While it may seem like an impossible task, step by step, we are mapping our supply chain to understand exactly what goes into our phone and where it comes from. By learning more about the hundreds of actors and locations involved in our smartphone supply chain, we can take an informed approach to making a difference. For Fairphone, that goes beyond audits, assessments and compliance. For example, it includes sourcing from more responsible mines and actively connecting them to our supply chain. It also means finding and engaging with suppliers that share our values and initiating improvement programs at the factories and beyond.

This document offers an introduction to our supply chain approach, and a summary of what we have learned about the Fairphone 2 supply chain to date. The 2018 edition includes an updated list of suppliers, plus a new list of smelters and refiners.

## Simplified representation of a smartphone supply chain



This graph is a simplified reflection of the Fairphone supply chain. In electronics, a variety of set-ups is possible and this graph should not be taken as a one-size-fits all for other products and brands.

# List of Suppliers

## Our approach to identifying and working with suppliers

At Fairphone, we believe that each supplier and workplace requires a tailored approach to create a positive impact that is sustainable. However, we can't do this with all suppliers at once. Therefore, we're taking a step-by-step approach to mapping and improving our supply chain:

### Mapping our suppliers

Over the past five years, we've been working to uncover all the different actors involved in making our phones. Based on a combination of desk research and direct communication with suppliers, we've now mapped 103 suppliers, ranging from the first to third tiers in our supply chain. We update this information regularly and are currently digging into deeper layers of the supply chain.

### Collaboration and setting expectations

Supply chains are long and complex, and we believe that getting suppliers involved in our mission is the only way to increase understanding of the issues and influence real change. Our code of conduct, the Fairphone Ways of Working Together, contains our policies and expectations for working with all of our partners and suppliers, covering topics like human rights, health and safety, the environment, ethics and responsible sourcing.

### Seeking opportunities for improvement

As we engage with our suppliers, we aim to identify opportunities for creating positive change. Starting with a selection of manufacturers, we're building relationships, completing collaborative evaluations and initiating improvement programs. These programs address a variety of issues, ranging from reducing the use of hazardous chemicals at the factories to enhancing employee influence over day-to-day operations by strengthening worker-management dialogue. Some of our initiatives stretch beyond our own supply chain, and include governments, non-profit organizations, industry experts and even other electronics companies.

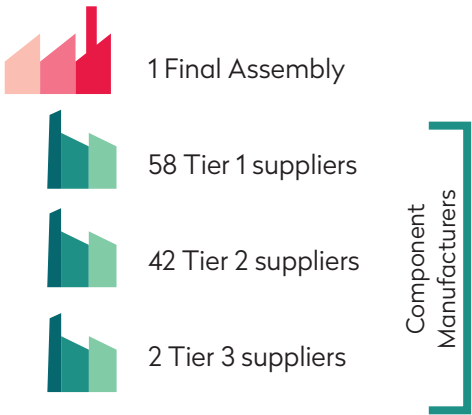
# Fairphone 2 suppliers at a glance

**Supplier Tiers**

Supplier tiers are calculated from the point of the final assembly. So component manufacturers that supply our final assembly partner are tier 1. The component suppliers that they work with are tier 2, and companies who work with these component suppliers are tier 3.

What have we learned about our supply chain so far? Here’s a snapshot of the most important findings. Note that these are not all the suppliers in our supply chain as there are many more and we are mapping these step by step.

We’ve identified a total of 103 suppliers, including:



We identified the production facilities of 68 suppliers. Most of these are located in Asia, particularly China:

Location	Count	%
China	45	66%
France	1	1%
Japan	4	6%
Korea	2	3%
Malaysia	6	9%
Netherlands	2	3%
Philippines	1	1%
Taiwan	6	9%
Thailand	1	1%

## List of Suppliers

This list includes all of the suppliers associated with the production of the Fairphone 2 that we have identified to date. It is accurate to the best of our knowledge at the time of publication. Inclusion on the list does not imply that these manufacturers are “fairer” than their competitors, or that Fairphone has a direct relationship with these companies and is influencing their business practices.

Here are a few explanations that will help you better understand our list of suppliers:


### Addresses

Whenever possible, we have listed the (approximate) manufacturing location. If this information was not available, we have provided the location of the company headquarters.

### Categories

Suppliers are grouped by the type of components they produce. Some suppliers may be mentioned more than once because they produce different kinds of components, sometimes with different manufacturing locations.

### Projects

We work with selected suppliers on specific initiatives designed to make improvements in our supply chain, such as worker welfare and sourcing fair materials. The Program symbol  indicates that a supplier was included in one of these supplier engagement initiatives.



## Phone Assembly - Fairphone 2

Supplier	Address: Manufacturer or Headquarters	Website
Hi-P Suzhou EMS* ★ Program	Manufacturer: 86 LiuFeng Road, WuZhong District, Suzhou, <b>China</b>	<a href="http://www.hi-p.com">www.hi-p.com</a>

## Semiconductors - Integrated Circuits, Discretes & LEDs

Supplier	Address: Manufacturer or Headquarters	Website
Infineon Technologies	Manufacturer: Lot 10 & 11, Industrial Zone Phase II, Kulim Hi-Tech Park 9000, Kulim, <b>Malaysia</b>	<a href="http://www.infineon.com">www.infineon.com</a>
Murata	Manufacturer: 747 Ōtsukimachi Magi, Ōtsuki-shi, Yamanashi-ken 401-0016, <b>Japan</b>	<a href="http://www.murata.com">www.murata.com</a>
OmniVision	Headquarters: 4275 Burton Drive, Santa Clara, California 95054, <b>USA</b>	<a href="http://www.ovt.com">www.ovt.com</a>
ON Semiconductors	Manufacturer: 11900 Plot 101, Zon Perdagangan, Bebas Fasa 2, Bayan Lepas, Pulau Pinang, <b>Malaysia</b>	<a href="http://www.onsemi.com">www.onsemi.com</a>
Osram Opto Semiconductors	Manufacturer: Bayan Lepas Free Industrial Zone Phase 1, 11900 Bayan Lepas Penang, <b>Malaysia</b>	<a href="http://www.osram.com">www.osram.com</a>
Qorvo	Manufacturer: 17 Tongji Middle Road, Industrial Park of Beijing Economic & Technological Development Area Daxing, Beijing 100176, <b>China</b>	<a href="http://www.qorvo.com">www.qorvo.com</a>
RICOH	Manufacturer: 1014 Miyabara-cho, Kofu, Yamanashi 400-0058, <b>Japan</b>	<a href="http://www.ricoh.com">www.ricoh.com</a>
ROHM	Manufacturer: Klong Nueng, 12120 Klong Luang, Pathum Thani, Tambon Khlong Nung, Amphoe Khlong Luang, Chang Wat Pathum Thani 12120, <b>Thailand</b>	<a href="http://www.rohm.com">www.rohm.com</a>
Samsung Semiconductor (SSI)	Manufacturer: 1, Samsungjeonja-ro, Hwaseong-si, Gyeonggi-do 18448, <b>Korea</b>	<a href="http://www.samsung.com/semiconductor">www.samsung.com/semiconductor</a>
Skyworks Solutions	Headquarters: 20 Sylvan Road, Woburn, Massachusetts 01801, <b>USA</b>	<a href="http://www.skyworksinc.com">www.skyworksinc.com</a>
Taiwan Semiconductor Manufacturing Co. (TSMC)	Manufacturer: 8, Lixing 6th Road, East District, Hsinchu Science Park, Hsinchu City 300, <b>Taiwan</b> (Manufacturing for Qualcomm)	<a href="http://www.tsmc.com">www.tsmc.com</a>
Texas Instruments	Manufacturer: Loakan Road, Philippine Economic Zone Authority, Baguio 2600, Benguet, <b>Philippines</b>	<a href="http://www.ti.com">www.ti.com</a>

## Passives

Supplier	Address: Manufacturer or Headquarters	Website
Avago Technologies - Broadcom Limited	Manufacturer: 11900 Bayan Lepas Free Ind. Zone Phase 3, Penang Pulau Pinang, 11900 <b>Malaysia</b>	<a href="http://www.broadcom.com">www.broadcom.com</a>
AVX Corporation* ★ Program	Manufacturer: 690-2, Miozato, Adogawa-CHO, Takashima city, Shiga, <b>Japan</b>	<a href="http://www.avx.com">www.avx.com</a>
Coilcraft	Manufacturer: 333 Provincial Road Meixian, Meizhou, Guangdong, <b>China</b>	<a href="http://www.coilcraft.com">www.coilcraft.com</a>
Cyntec	Manufacturer: 2 Xin'an Road, East District, Hsinchu, 300 <b>Taiwan</b>	<a href="http://www.cyntec.com">www.cyntec.com</a>
KOA Speer Electronics	Manufacturer: 77 Luoyang East Road, Taicang Economy Development Area, Taicang, Jiangsu, <b>China</b>	<a href="http://www.koaspeer.com">www.koaspeer.com</a>
Murata	Manufacturer: 747 Ōtsukimachi Magi, Ōtsuki-shi, Yamanashi-ken 401-0016, <b>Japan</b>	<a href="http://www.murata.com">www.murata.com</a>
Nihon Dempa Kogyo (NDK)	Manufacturer: No 20 of Zhuyuan Road, Suzhou New District, Suzhou, Jiangsu, 215011 <b>China</b>	<a href="http://www.ndk.com">www.ndk.com</a>
ON Semiconductors	Manufacturer: 11900 Plot 101, Zon Perdagangan, Bebas Fasa 2, Bayan Lepas, Pulau Pinang, <b>Malaysia</b>	<a href="http://www.onsemi.com">www.onsemi.com</a>
Panasonic Sanyo	Manufacturer: 49 Dongjing Rd Huangdao, Qingdao, Shandong, <b>China</b>	<a href="http://www.panasonic.net/sanyo">www.panasonic.net/sanyo</a>
Samsung Electro-Mechanics	Headquarters: Maeyoung-ro 150 (Maetan-dong) Yeongtong-gu, Suwon, Gyeonggi-do 16674, <b>Korea</b>	<a href="http://www.samsung.com">www.samsung.com</a>
Sensicom Xianqiao	Manufacturer: Hengfu Industrial Zone, Dongjiang, Qiaotou, Dongguan, <b>China</b>	<a href="http://www.sensicom.net">www.sensicom.net</a>
Taiyo Yuden	Manufacturer: 102 Keji Dong Road, Shi Jie, Dongguan, Guangdong, 523290, <b>China</b>	<a href="http://www.t-yuden.com">www.t-yuden.com</a>
TDK Corporation	Headquarters: Shibaura Renasite Tower, 3-9-1 Shibaura, Minato-ku, Tokyo, <b>Japan</b>	<a href="http://www.global.tdk.com">www.global.tdk.com</a>
Toko Inc [Murata]	Headquarters: 18 Gomigaya, Tsurugashima, Saitama Prefecture 350-2202, <b>Japan</b>	<a href="https://www.murata.com/ja-jp/group/toko">https://www.murata.com/ja-jp/group/toko</a>
Walsin Technology	Manufacturer: Dalangzhen, Dongguan, Guangdong 523799, <b>China</b>	<a href="http://www.passivecomponent.com">www.passivecomponent.com</a>
Yageo Corporation	Manufacturer: 10 Zhuyuan Road, Huqiu, Suzhou, Jiangsu, <b>China</b>	<a href="http://www.yageo.com">www.yageo.com</a>

## Electromechanical, MEMS

Supplier	Address: Manufacturer or Headquarters	Website
Asahi Kasei (AKM)	Headquarters: 1-105 Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101, <b>Japan</b>	<a href="http://www.akm.com">www.akm.com</a>
Knowles Electronics LLC	Manufacturer: Jiangsu Suzhou Xiangcheng Economic Development Zone, Caohu Ave, Xiangcheng Qu, Suzhou Shi, Jiangsu Sheng, <b>China</b>	<a href="http://www.knowles.com">www.knowles.com</a>

KOTL* ★ Program	Manufacturer: Jinlong Technology Zone, Jingang Road Baixiang Yueqing, Zhejiang 325603, <b>China</b>	<a href="http://www.vibration-motor.com">www.vibration-motor.com</a>
Panasonic Sanyo	Manufacturer: 49 Dongjing Road Huangdao, Qingdao, Shandong, <b>China</b>	<a href="http://www.panasonic.net/sanyo">www.panasonic.net/sanyo</a>
ST Micro Electronics	Headquarters: 39, Chemin du Champ des Filles, Plan-Les-Ouates, Geneva, <b>Switzerland</b>	<a href="http://www.st.com">www.st.com</a>
Tianjia* ★ Program	Manufacturer: 171 Yu Yin Road, YaoBei village, Hong Qiao, Yue Qing, ZheJiang, <b>China</b>	<a href="http://cntjdz.net">cntjdz.net</a>

## Connectors, Clips, Spring Contacts, Cables

Supplier	Address: Manufacturer or Headquarters	Website
Advanced Connectek (ACON)	Manufacturer: Jinbin General Building No.5, No.45, Muning Road, TEDA Tian-Jin, <b>China</b>	<a href="http://www.acon.com">www.acon.com</a>
Amphenol	Manufacturer: Block B, No. 6 Fengxi Road, South District Wujin Hi-Tech Industrial Zone, Changzhou, Jiangsu Province Post 213164, <b>China</b>	<a href="http://www.amphenol.com">www.amphenol.com</a>
Dongguan Jin Cang Tong Cai	Headquarter: No.19, Yinling Road, Yinfeng Industrial Park, Yufeng Community, Zhangmutou, Dongguan, <b>China</b>	No website
Electric Connector Technology (ECT)	Manufacturer: No.8-A Building, Jinxiu Industrial Park, Xitian Village, Gongming, Bao'an, Shenzhen, <b>China</b>	<a href="http://www.ectsz.com">www.ectsz.com</a>
GSN	Manufacturer: No.13 Building Shenzhen Guanlan Automotive-Electronics Industrial Park, Guanping Road Guanlan, Longhua New, Shenzhen, Guangdong, <b>China</b>	<a href="http://www.gsn.cn.com">www.gsn.cn.com</a>
Hirose	Headquarters: 5-5-23 Osaki, Shinagawa-ku, Tokyo, Shinagawa-ku, Tokyo, <b>Japan</b>	<a href="http://www.hirose.com">www.hirose.com</a>
Japan Aviation Electronics Industry (JAE)	Headquarters: 21-2 Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, <b>Japan</b>	<a href="http://www.jae.com">www.jae.com</a>
Luxshare ICT	Manufacturer: 17 Kuiqing road, Qingxi, Dongguan, Guangdong, <b>China</b>	<a href="http://www.luxshare-ict.com">www.luxshare-ict.com</a>
Murata	Manufacturer: 747 Ōtsukimachi Magi, Ōtsuki-shi, Yamanashi-ken 401-0016, <b>Japan</b>	<a href="http://www.murata.com">www.murata.com</a>
Shenzhen Zhongcheng Technology	Headquarter: 142 Song Yu Road, Honhxing, Songgang, Bao'an, Shenzhen, <b>China</b>	No website
Wingchun Electro-plating	Headquarter: 16, Cai Tian Road, Sha Tian, Keng Zi street, Pingshan, Shenzhen, <b>China</b>	No website
Yokowo	Manufacturer: Plot 69 Kulim Industrial Estate, 09000 Kulim, Kedah, <b>Malaysia</b>	<a href="http://www.yokowoconnector.com">www.yokowoconnector.com</a>
Singatron	Headquarter: 13925 Magnolia Avenue, Chino, CA 91710, <b>U.S.A.</b>	<a href="http://singatron.com">singatron.com</a>

## Display, Touch Screen

Supplier	Address: Manufacturer or Headquarters	Website
Japan Display Inc (JDI)	Headquarters: 7-1 Nishi-shinbashi 3-chome, Minato-ku, Tokyo, 105-0003, <b>Japan</b>	<a href="http://www.j-display.com">www.j-display.com</a>
Taiwan Display Inc (TDI)	Manufacturer: 2, East 13th St. K. E. P. Z. Kaohsiung 806, <b>Taiwan</b>	<a href="http://www.j-display.com">www.j-display.com</a>
Truly Semiconductors	Manufacturer: North Of The Dong Chong Road, Truly Industrial Area, Shanwei, Guangdong Province, <b>China</b>	<a href="http://www.trulysemi.com">www.trulysemi.com</a>

## Cameras

Supplier	Address: Manufacturer or Headquarters	Website
Ningbo JCT Electronics	Manufacturer: 99 Chengshan Road, Economy Development Zone Fenghua, Ningbo, <b>China</b>	<a href="http://www.jctvcm.com">www.jctvcm.com</a>
Sunny Optical Technology	Manufacturer: 66-68 Shunyu Road, Yuyao, Zhejiang, <b>China</b>	<a href="http://www.sunnyoptical.com">www.sunnyoptical.com</a>
Lonsid	Headquarters: Wenzhou Bridge High-Tech Industrial Zone, Zhejiang, <b>China</b>	<a href="http://www.lonsid.com">www.lonsid.com</a>
Analog Devices	Headquarters: 1 Technology Way, Norwood, Massachusetts 02062, <b>USA</b>	<a href="http://www.analog.com">www.analog.com</a>
Dongwoon	Headquarters: 9F Arirang Tower, 2351, Nambusunhwan-ro, Seocho-gu, Seoul, <b>Korea</b>	<a href="http://www.dwanatech.com">www.dwanatech.com</a>

## Lenses

Supplier	Address: Manufacturer or Headquarters	Website
CCL Design Electronics	Manufacturer: No. 6 Bai He Street Suzhou, Jiangsu 215021, <b>China</b>	<a href="http://www.ccldesignelectronics.com">www.ccldesignelectronics.com</a>
Corning	Headquarters: One Riverfront Plaza Corning, New York 14831, <b>USA</b>	<a href="http://www.corning.com">www.corning.com</a>
Largan Precision	Headquarters: 11 Jingke Road, Nantun Dist, Taichung City 40852, <b>Taiwan</b>	<a href="http://www.largan.com">www.largan.com</a>

## Printed Circuit Board

Supplier	Address: Manufacturer or Headquarters	Website
AT&S* ★ Program	Manufacturer: 5000 Jindu Road, Minhang District, Shanghai, <b>China</b>	<a href="http://www.ats.net">www.ats.net</a>

## Flexible Printed Circuits

Supplier	Address: Manufacturer or Headquarters	Website
Hi-P Suzhou Flex* ★ Program	Manufacturer: 86 LiuFeng Road, WuZhong District, Suzhou, <b>China</b>	<a href="http://www.hi-p.com">www.hi-p.com</a>

## Soldering Paste

Supplier	Address: Manufacturer or Headquarters	Website
AIM Solder* ★ Program	Manufacturer: 264 Xiangshan Road, Luotian Village, Songgang, Bao'an, Shenzhen, Guangdong 518105, <b>China</b>	<a href="http://www.aimsolder.com">www.aimsolder.com</a>
Alpha Assembly Solutions	Manufacturer: 266 Guangtian Road, Tangxiayong Community, Songgang Street, Bao'an, Shenzhen 518105, <b>China</b>	<a href="http://www.alphaassembly.com">www.alphaassembly.com</a>

## Battery

Supplier	Address: Manufacturer or Headquarters	Website
High Power	Manufacturer: Lithium Battery Facility, HuiZhou Highpower Technology, XinHu industrial zone, Ma'an, HuiCheng, HuiZhou, Guangdong, <b>China</b>	<a href="http://www.highpowertech.com">www.highpowertech.com</a>
JiaDe Energy Technology	Manufacturer: JiaDe Tech Industry Park, Road 7, DingWan, DingJiaWan Park, SanZao, JingWan, ZhuHai, Guangdong, <b>China</b>	<a href="http://www.blbattery.com">www.blbattery.com</a>

## Plastics and Rubbers

Supplier	Address: Manufacturer or Headquarters	Website
BASF	Headquarters: Carl-Bosch-Strasse 38, 67056 Ludwigshafen, <b>Germany</b>	<a href="http://www.basf.com">www.basf.com</a>
Broadway Precision Technology ★ Program	Manufacturer: Block 34, East Juhuang Industrial Park, Dasan, Guanlan Community Office, Bao'an, Shenzhen 518110, <b>China</b>	<a href="http://www.broadway-int.com">www.broadway-int.com</a>
ChiMei Corporation	Manufacturer: 18 Hanfeng Road, Dagang Zhenjiang New Area, Jiangsu, <b>China</b>	<a href="http://www.chimeicorp.com">www.chimeicorp.com</a>
Covestro	Headquarters: Kaiser-Wilhelm-Allee 60, 51373 Leverkusen, <b>Germany</b>	<a href="http://www.covestro.com">www.covestro.com</a>
EMS Grivory	Manufacturer: 227 Song Bei Lu, Wuzhong Qu, Suzhou Shi, Jiangsu Sheng, <b>China</b>	<a href="http://www.emsgrivory.com">www.emsgrivory.com</a>
Fenghua Xuri Hongyu Group	Manufacturer: 229 Si Ming Dong Lu, Fenghua Shi, Ningbo Shi, Zhejiang Sheng, <b>China</b>	<a href="http://www.xurihongyugroup.com">www.xurihongyugroup.com</a>
General Silicones	Manufacturer: 168 Youdong Road, Luxu town, Wujiang City, JiangSu, 225211, <b>China</b>	<a href="http://www.generalsilicones.com">www.generalsilicones.com</a>
PolyOne	Manufacturer: 77 Shenggang Street, SIP Suzhou 215024, <b>China</b>	<a href="http://www.polyone.com">www.polyone.com</a>
Hi-P Suzhou Molding* ★ Program	Manufacturer: 86 LiuFeng Road, WuZhong District, Suzhou, <b>China</b>	<a href="http://www.hi-p.com">www.hi-p.com</a>
Huntsman Corporation	Manufacturer: 8 Xing Yi Lu, HongQiao, Changning Qu, Shanghai Shi 200051, <b>China</b>	<a href="http://www.huntsman.com">www.huntsman.com</a>
Lotte Advanced Materials	Manufacturer: 334-27 Yeosusandan-ro Yeosu, Jeollanam-do, <b>South Korea</b>	<a href="http://www.lotteadms.com">www.lotteadms.com</a>
Polyplastics	Manufacturer: No. 13, Jianye Road, Daliao District, Kaohsiung City, 831 <b>Taiwan</b>	<a href="http://www.polyplastics.com">www.polyplastics.com</a>
Sabic	Headquarters: Al-Jubail 31961, <b>Saudi Arabia</b>	<a href="http://www.sabic.com">www.sabic.com</a>

## Shields, Metal Parts, Screws, Inserts

Supplier	Address: Manufacturer or Headquarters	Website
LaiMu	Manufacturer: 8 Sheng Long Road, Jiuting Town, Songjiang District, Shanghai, <b>China</b>	<a href="http://www.laimu.company.weiku.com">www.laimu.company.weiku.com</a>
PenEngineering (PEM)	Headquarters: 5190 Old Easton Road, Danboro, Pennsylvania 18916, <b>USA</b>	<a href="http://www.pemnet.com">www.pemnet.com</a>
PSM International	Manufacturer: Binhu Qu, Wuxi Shi, Jiangsu Sheng 214028, <b>China</b>	<a href="http://www.psminternational.com">www.psminternational.com</a>
Nippon Seisen	Manufacturer: 1 Chome-14-17 Ikenomiya Hirakata-shi, Ōsaka-fu 573-0005, <b>Japan</b>	<a href="http://www.n-seisen.co.jp">www.n-seisen.co.jp</a>
TengMei	Manufacturer: 6, Shi Chang Bei Street, Fu Hai Road, Xiagang Community, Changan, Dongguan, Guangdong, <b>China</b>	No website

## Gaskets, Pads, Meshes, Foil, Labels

Supplier	Address: Manufacturer or Headquarters	Website
Fabri-Tech	Manufacturer: Factory No. 1, Gangtian Road Suzhou Industrial Park. Suzhou 215024, <b>China</b>	<a href="http://www.fabritech.net">www.fabritech.net</a>
Kunshan Youwei Electronic Materials	Manufacturer: 555 HonGuang Road, Kunshan 215316, <b>China</b>	<a href="http://www.ksyw.cn">www.ksyw.cn</a>
Parker Chomerics	Headquarters: 77 Dragon Ct, Woburn, Massachusetts 01801, <b>USA</b>	<a href="http://www.chomerics.com">www.chomerics.com</a>
Rogers Corporation	Headquarters: One Technology Drive, Rogers, Connecticut 06263, <b>USA</b>	<a href="http://www.rogerscorp.com">www.rogerscorp.com</a>
Saati	Headquarters: Via Milano 14, 22070 Appiano Gentile, <b>Italy</b>	<a href="http://www.saati.com">www.saati.com</a>

## Adhesives

Supplier	Address: Manufacturer or Headquarters	Website
3M	Headquarters: St. Paul, Minnesota 55144, <b>USA</b>	<a href="http://www.3m.com">www.3m.com</a>
Nitto Denko	Headquarters: 33rd Floor, Grand Front Osaka, 4-20 Ofuka-cho, Kita-ku, Osaka 530-0011, <b>Japan</b>	<a href="http://www.nitto.com">www.nitto.com</a>
Sekisui Chemical	Headquarters: 2-3-17 Toranomom, Minato-ku, Tokyo 105-8450, <b>Japan</b>	<a href="http://www.sekisuichemical.com">www.sekisuichemical.com</a>
Tesa	Headquarters: Hugo-Kirchberg-Straße 1, 22848 Norderstedt, <b>Germany</b>	<a href="http://www.tesa.com">www.tesa.com</a>

## Finished metal solutions

Supplier	Address: Manufacturer or Headquarters	Website
Mitsui	Manufacturer: 1 Jianguomen Outer St, GuoMao, Chaoyang Qu, Beijing Shi, 100004, <b>China</b>	<a href="http://www.mitsui.com">www.mitsui.com</a>
Nippon Steel and Sumimoto Metals (NSSM)	Headquarters: 2 Chome-6-1 Marunouchi Chiyoda-ku, Tokyo 100-0005, <b>Japan</b>	<a href="http://www.nssmc.com">www.nssmc.com</a>
Shenzhen Kwong Lee Metal	Manufacturer: 14 Xin Er Zhuang Cun Er Lu, Bao'an, Shenzhen, Guangdong 511700, <b>China</b>	<a href="http://www.klmetals.com">www.klmetals.com</a>
Uyemura	Headquarters: 3990 Concoors, 425 Ontario, California 91764, <b>USA</b>	<a href="http://www.uyemura.com">www.uyemura.com</a>
Zhaojin Kanfort ★ Program	Manufacturer: 288 Guoda Road, Zhaoyuan, Shandong, <b>China</b>	<a href="http://www.zjlifu.com">www.zjlifu.com</a>

## Packaging

Supplier	Address: Manufacturer or Headquarters	Website
Arjo Wiggins	Manufacturing: 17 Rue du 8 Mai 1945, 72310 Bessé-sur-Braye, <b>France</b>	<a href="http://www.arjowiggins.com">www.arjowiggins.com</a>
Ecodrukkers	Manufacturing: Handelsweg 2, 2421 LP Nieuwkoop, <b>The Netherlands</b>	<a href="http://www.ecodrukkers.nl">www.ecodrukkers.nl</a>
PaperFoam	Manufacturing: Hermesweg 22, 3771 ND Barneveld, <b>The Netherlands</b>	<a href="http://www.paperfoam.com">www.paperfoam.com</a>
Paxpring	Headquarters: Achteromstraat 8a, 1381 AV Weesp, <b>The Netherlands</b>	<a href="http://www.paxpring.com">www.paxpring.com</a>
Shenzhen YUTO Printing Packing (SZ Yuto)	Manufacturer: Yuto Industrial Park, 10 Shi Huan Lu, Bao'an, Shenzhen, Guangdong, <b>China</b>	<a href="http://www.yuto.com.au">www.yuto.com.au</a>
Taiwan Lung Meng Technology	Manufacturing: 20 Huangong Rd, Yongkang District, Tainan, 710, <b>Taiwan</b>	<a href="http://www.Taiwanlm.com">www.Taiwanlm.com</a>

## Headphones (for the French market)

Supplier	Address: Headquarters	Website
Foster Electrics	Headquarters: 1-1-109 Tsutsujigaoka, Akishima City, Tokyo, 196-8550, <b>Japan</b>	<a href="http://www.foster-electric.com">www.foster-electric.com</a>

## Integrated Circuits

Supplier	Address: Headquarters	Website
Qualcomm	Headquarters: 5775 Morehouse Drive, San Diego, California 92121, <b>USA</b>	<a href="http://www.qualcomm.com">www.qualcomm.com</a>
Synaptics	Headquarters: 1251 McKay Drive, San José, California 95131, <b>USA</b>	<a href="http://www.synaptics.com">www.synaptics.com</a>



# List of Smelters and Refiners

## Our approach to identifying and working with smelters and refiners

Fairphone uses a top-down approach in its due diligence process to find out which smelters and refiners are part of our supply chain. We (sometimes literally) travel from the top to the bottom of our supply chain, gathering a paper trail, and revealing each player involved, step by step. In addition, with a selection of materials, we are using a bottom-up approach to actively connect responsible mining initiatives to our supply chain, first identifying the best practices and initiatives in mining and then encouraging and supporting specific suppliers to source from there to develop a fully transparent supply chain, component by component, to source from there.

Thanks to the information we have gathered from our suppliers, we have identified the smelters and refiners for the four defined conflict minerals: tin, tantalum, tungsten and gold. While certain suppliers report the smelters and refiners they work with per actual component they supply for the Fairphone 2 (reporting on a 'product level'), others simply share all the smelters and refiners they work with as a company (reporting on a 'company level'), leading to a very large number of smelters and refiners being reported and making it impossible to know if they are indeed directly involved in the Fairphone supply chain. Moreover, it is challenging to validate whether indeed all, as well as the correct supply chain connections, have been reported. (this is another reason why we consider it important to work bottom-up, to develop a real transparent supply chain). Therefore this section presents all smelters and refiners that are potentially providing materials for Fairphone.

### Due diligence

The OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas is a framework that sets the industry standard for due diligence. To monitor that the production of our phones doesn't contribute to conflict or human rights violations Fairphone follows the five-step approach as presented in the OECD guidelines:

#### 1. Establish strong company management systems

Fairphone's Responsible Sourcing Policy outlines our commitment to making a positive impact in

collaboration with our partners and suppliers. We also have a Standard Operating Procedure for Mineral Due Diligence, which defines our internal processes for collecting information about our supply chain, including the roles and responsibilities of the legal, value chain and product teams. It also describes our record-keeping processes for the information we collect from and about our suppliers.

#### 2. Identify and assess risk in the supply chain

We collect a variety of information from our suppliers, including material declarations, to understand which components contain tin, tantalum, tungsten and gold. We also ask suppliers to identify their smelters and refiners by cascading a conflict mineral report (CMRT) down their supply chain. We evaluate this information collected based on a variety of criteria, including accuracy and compliance of the reported refiners/smelters with the Responsible Minerals Assurance Process (RMAP).

#### 3. Design and implement a strategy to respond to identified risks

If we identify information or practices that we consider concerning, we conduct further research. If any red flags are identified, we reach out to our suppliers for further clarification. For certain situations, we may need to end the relationship; for others we may develop a collaborative plan for improvement.

#### 4. Carry out independent third-party audit of supply chain due diligence

The conflict mineral reports from our component

suppliers includes a list of the smelters they work with. As a small player, we don't have the resources to conduct additional audits on our own. We therefore rely on industry-wide programs like the Responsible Minerals Initiative (RMI) audits or other recognized third-party audits to check the status of identified smelters.

**5. Report annually on supply chain due diligence**

We report on our supply chain due diligence and related improvement projects through our website, blog, annual Impact Report and this List of Suppliers.

**Seeking opportunities for improvement**

For the electronics sector, due diligence focuses heavily on conflict financing of the four recognized conflict minerals (tin, tantalum, tungsten and gold) originating from the Democratic Republic of the Congo (DRC) and the surrounding countries. Industry audits are generally only covering these topics (see 3rd party audit status). However, we recognize that

conflict, human rights and environmental issues happen in a wider range of material supply chains and countries, and go far beyond financing conflict. In addition, we believe it's not enough to simply minimize or avoid risks through a process of due diligence. That's why we're actively searching for opportunities to make a positive impact, especially in conflict-affected areas.

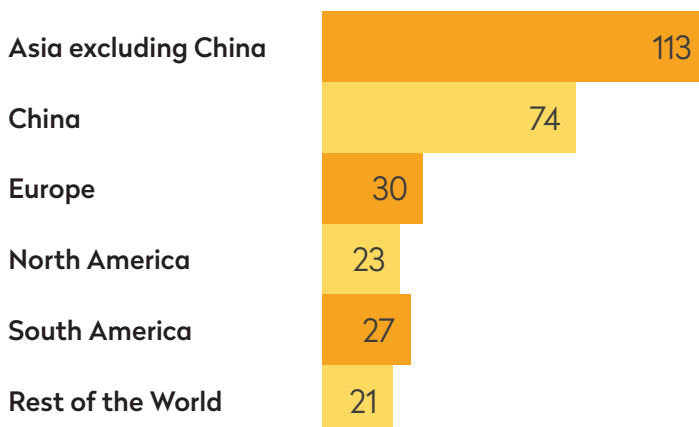
We have already found more responsible sources of tin, tantalum, tungsten and gold, and worked with mines, smelters, suppliers and a wide range of other parties to integrate them into the supply chain of specific components aiming to grow volumes to more and more components in time. In 2017, we conducted extensive research on 38 of the materials found in our phones and published a materials scoping study. This is helping us prioritize which materials to focus on next and identify new opportunities for improvement projects.

## Fairphone 2 smelters and refiners at a glance

What have we learned about smelters and refiners so far? Here is a snapshot of the most important findings.

- **97%** of the suppliers we contacted provided information on the tin, tantalum, tungsten and gold smelters they are sourcing from.
- Of these, **50%** reported on a product level; the rest reported on company or product category level.

We have identified **288** smelters and refiners. They come from:



Smelters/refiners reported by suppliers, calculated in percentage of total weight of the mineral used in the Fairphone 2:

	Reported	Unreported	Reported product level	Reported company level
Gold	99,86%	0,14%	68%	31,86%
Tin	99,98%	0,02%	91,50%	8,48%
Tungsten	100%	0	99,53%	0,47%
Tantalum	100%	0	0,02%	99,98%

#### Third-party audit\* status for smelters and refiners of the four defined conflict minerals

\*This audit checks whether smelters/refiners have the right processes in place to determine whether or not their materials come from the DRC

	Total reported	Audit passed	Audit in progress	Audit not valid
Gold	135	96	4	34
Tantalum	40	38	1	1
Tin	79	70	1	7
Tungsten	34	34	0	0

Material origins based on above smelters and refiners who have passed the audit:

	Gold	Tungsten	Tin	Tantalum
Smelters known to source from the DRC	0	2	5	22
Smelters known to source from the DRC’s adjoining countries (but NOT the DRC itself)	0	3	0	4
Smelters known to source from recycled sources	24	16	22	30
Unknown origins or disclosing to auditors only	110	0	9	2

Source: RCOI (Reasonable Country of Origin Inquiry) list; the data presented includes both direct and indirect sources

## List of Smelters and Refiners

All the details shared here are accurate to the best of our knowledge at the time of publication. Inclusion on the list does not imply that these smelter and refiners are “fairer” than their competitors, or that Fairphone has a direct relationship with these companies and is influencing their business practices. We will update the information yearly and are currently collecting smelter and refiner information related to our other focus materials, and will publish it in a future edition of this document.

Here are a few explanations that will help you better understand our list of smelters and refiners:

### Responsible Minerals Initiative (RMI)

The Responsible Minerals Initiative is the industry association which runs the RMAP auditing program, while cross-recognizing a variety of other recognized auditing programs, including the RJC and LBMA. All of these programs check for processes related to identifying one or more of the four defined conflict minerals the RJC also assesses mine sites on a wider range of social and environmental issues.

### Audit passed

Smelters or refiners that are verified to be in compliance with RMI standards or one of the cross-recognized certification programs.

### Audit in progress

Smelters or refiners that have committed to undergoing an RMI audit or one of the cross-recognized certification audits and are in the participating phase.

### Audit not valid

Smelters or refiners that are communicating with RMI, have failed to proceed with the certification process, audited but found not conformant, or still require further outreach to join certification program(s).

## Metal type: Gold

Standard Smelter Name	Country	RMAP Conformant
Western Australian Mint (T/a The Perth Mint)	Australia	Conformant
Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	China	Conformant
The Refinery of Shandong Gold Mining Co., Ltd.	China	Conformant
Valcambi S.A.	Switzerland	Conformant
Aida Chemical Industries Co., Ltd.	China	Conformant
Allgemeine Gold-und Silberscheideanstalt A.G.	China	Conformant
AngloGold Ashanti Corrego do Sitio Mineracao	United States of America	Conformant
Argor-Heraeus S.A.	China	Conformant
Asahi Pretec Corp.	United States of America	Conformant
Asaka Riken Co., Ltd.	China	Conformant
Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	Japan	No valid audit
Aurubis AG	United States of America	Conformant
Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	China	Conformant
Boliden AB	Thailand	Conformant
C. Hafner GmbH + Co. KG	Germany	Conformant
CCR Refinery - Glencore Canada Corporation	United States of America	Conformant
Cendres + Metaux S.A.	Japan	Conformant
Chimet S.p.A.	Germany	Conformant
DODUCO Contacts and Refining GmbH	Germany	Conformant
Dowa	China	Conformant
Eco-System Recycling Co., Ltd.	United States of America	Conformant
Heimerle + Meule GmbH	China	Conformant
Heraeus Metals Hong Kong Ltd.	China	Conformant
Heraeus Precious Metals GmbH & Co. KG	Brazil	Conformant
Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	Brazil	Conformant
Ishifuku Metal Industry Co., Ltd.	Japan	Conformant
Istanbul Gold Refinery	China	Conformant
Japan Mint	Russian Federation	Conformant
Jiangxi Copper Co., Ltd.	Japan	Conformant
Asahi Refining USA Inc.	United States of America	Conformant
Asahi Refining Canada Ltd.	Kazakhstan	Conformant
JSC Ekaterinburg Non-Ferrous Metal Processing Plant	China	Conformant
JSC Uralelectromed	China	Conformant
JX Nippon Mining & Metals Co., Ltd.	United States of America	Conformant
Kennecott Utah Copper LLC	China	Conformant
Kojima Chemicals Co., Ltd.	Brazil	Conformant
L'azurde Company For Jewelry	Indonesia	No valid audit

LS-NIKKO Copper Inc.	<b>Indonesia</b>	Conformant
Materion	<b>Indonesia</b>	Conformant
Matsuda Sangyo Co., Ltd.	<b>Indonesia</b>	Conformant
Metalor Technologies (Hong Kong) Ltd.	<b>Indonesia</b>	Conformant
Metalor Technologies S.A.	<b>Japan</b>	Conformant
Metalor USA Refining Corporation	<b>Spain</b>	Conformant
Metalor Technologies (Singapore) Pte., Ltd.	<b>Bolivia (Plurinational State Of)</b>	Conformant
Metalurgica Met-Mex Penoles S.A. De C.V.	<b>Poland</b>	Conformant
Mitsubishi Materials Corporation	<b>China</b>	Conformant
Mitsui Mining and Smelting Co., Ltd.	<b>China</b>	Conformant
Nadir Metal Rafineri San. Ve Tic. A.S.	<b>Brazil</b>	Conformant
Navoi Mining and Metallurgical Combinat	<b>Malaysia</b>	No valid audit
Nihon Material Co., Ltd.	<b>Brazil</b>	Conformant
PAMP S.A.	<b>Belgium</b>	Conformant
Ohura Precious Metal Industry Co., Ltd.	<b>Brazil</b>	Conformant
OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	<b>Peru</b>	Conformant
PT Aneka Tambang (Persero) Tbk	<b>Japan</b>	Conformant
PX Precinox S.A.	<b>Thailand</b>	Conformant
Rand Refinery (Pty) Ltd.	<b>Philippines</b>	Conformant
Royal Canadian Mint	<b>Bolivia (Plurinational State Of)</b>	Conformant
SEMPSA Joyeria Plateria S.A.	<b>Indonesia</b>	Conformant
Schone Edelmetaal B.V.	<b>Indonesia</b>	Conformant
SOE Shyolkovsky Factory of Secondary Precious Metals	<b>Indonesia</b>	Conformant
Solar Applied Materials Technology Corp.	<b>Indonesia</b>	Conformant
Sumitomo Metal Mining Co., Ltd.	<b>Indonesia</b>	Conformant
Tanaka Kikinzoku Kogyo K.K.	<b>Indonesia</b>	Conformant
Tokuriki Honten Co., Ltd.	<b>Indonesia</b>	Conformant
Umicore S.A. Business Unit Precious Metals Refining	<b>Indonesia</b>	Conformant
United Precious Metal Refining, Inc.	<b>Indonesia</b>	Conformant
Yamakin Co., Ltd.	<b>Indonesia</b>	Conformant
Yokohama Metal Co., Ltd.	<b>Indonesia</b>	Conformant
Zhongyuan Gold Smelter of Zhongjin Gold Corporation	<b>Indonesia</b>	Conformant
Republic Metals Corporation	<b>Indonesia</b>	Conformant
Gold Refinery of Zijin Mining Group Co., Ltd.	<b>Indonesia</b>	Conformant
Torecom	<b>Indonesia</b>	Conformant
Umicore Brasil Ltda.	<b>Indonesia</b>	Conformant
Umicore Precious Metals Thailand	<b>Indonesia</b>	Conformant
MMTC-PAMP India Pvt., Ltd.	<b>Indonesia</b>	Conformant
Singway Technology Co., Ltd.	<b>Indonesia</b>	Conformant
T.C.A S.p.A	<b>Indonesia</b>	Conformant
Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	<b>Brazil</b>	Conformant
Guangdong Jinding Gold Limited	<b>China</b>	No valid audit
Advanced Chemical Company	<b>United States of America</b>	Conformant

Al Etihad Gold Refinery DMCC	<b>United Arab Emirates</b>	Conformant
Almalyk Mining and Metallurgical Complex (AMMC)	<b>Uzbekistan</b>	Conformant
AU Traders and Refiners	<b>South Africa</b>	Conformant
Daejin Indus Co., Ltd.	<b>Republic of Korea</b>	Conformant
DSC (Do Sung Corporation)	<b>Republic of Korea</b>	Conformant
Emirates Gold DMCC	<b>United Arab Emirates</b>	Conformant
Geib Refining Corporation	<b>United States of America</b>	Conformant
Kazzinc	<b>Kazakhstan</b>	Conformant
Korea Zinc Co., Ltd.	<b>Republic of Korea</b>	Conformant
Kyrgyzaltyn JSC	<b>Kyrgyzstan</b>	Conformant
Metalor Technologies (Suzhou) Ltd.	<b>China</b>	Conformant
Moscow Special Alloys Processing Plant	<b>Russian Federation</b>	Conformant
OJSC Novosibirsk Refinery	<b>Russian Federation</b>	Conformant
Prioksky Plant of Non-Ferrous Metals	<b>Russian Federation</b>	Conformant
Samduck Precious Metals	<b>Republic of Korea</b>	Conformant
SAXONIA Edelmetalle GmbH	<b>Germany</b>	Conformant
Sichuan Tianze Precious Metals Co., Ltd.	<b>China</b>	Conformant
WIELAND Edelmetalle GmbH	<b>Germany</b>	Conformant
Caridad	<b>Mexico</b>	No Valid Audit
Chugai Mining	<b>Japan</b>	No Valid Audit
Hunan Chenzhou Mining Co., Ltd.	<b>China</b>	No Valid Audit
HwaSeong CJ CO., LTD.	<b>Republic of Korea</b>	No Valid Audit
Sabin Metal Corp.	<b>United States of America</b>	No Valid Audit
Samwon Metals Corp.	<b>Republic of Korea</b>	No Valid Audit
Great Wall Precious Metals Co., Ltd. of CBPM	<b>China</b>	No Valid Audit
Tongling Nonferrous Metals Group Co., Ltd.	<b>China</b>	No Valid Audit
Yunnan Copper Industry Co., Ltd.	<b>China</b>	No Valid Audit
Abington Reldan Metals, LLC	<b>United States of America</b>	No Valid Audit
Bangalore Refinery	<b>India</b>	Active
Daye Non-Ferrous Metals Mining Ltd.	<b>China</b>	No Valid Audit
Degussa Sonne / Mond Goldhandel GmbH	<b>Germany</b>	No Valid Audit
Refinery of Seemine Gold Co., Ltd.	<b>China</b>	No Valid Audit
GCC Gujrat Gold Centre Pvt. Ltd.	<b>India</b>	No Valid Audit
Guoda Safina High-Tech Environmental Refinery Co., Ltd.	<b>China</b>	No Valid Audit
Hangzhou Fuchunjiang Smelting Co., Ltd.	<b>China</b>	No Valid Audit
HeeSung Metal Ltd.	<b>Republic of Korea</b>	Conformant
Kaloti Precious Metals	<b>United Arab Emirates</b>	No Valid Audit
Kazakhmys Smelting LLC	<b>Kazakhstan</b>	No Valid Audit
KGHM Polska Miedz Spolka Akcyjna	<b>Poland</b>	Active
Kyshtym Copper-Electrolytic Plant ZAO	<b>Russian Federation</b>	No Valid Audit
Lingbao Gold Co., Ltd.	<b>China</b>	No Valid Audit
Lingbao Jinyuan Tonghui Refinery Co., Ltd.	<b>China</b>	No Valid Audit
Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	<b>China</b>	No Valid Audit
Modeltech Sdn Bhd	<b>Malaysia</b>	No Valid Audit



Morris and Watson	<b>New Zealand</b>	No Valid Audit
Penglai Penggang Gold Industry Co., Ltd.	<b>China</b>	No Valid Audit
Remondis Argentia B.V.	<b>Netherlands</b>	Active
SAAMP	<b>France</b>	Conformant
SAFINA A.S.	<b>Czech Republic</b>	Active
Sai Refinery	<b>India</b>	No Valid Audit
Shandong Tiancheng Biological Gold Industrial Co., Ltd.	<b>China</b>	No Valid Audit
Tony Goetz NV	<b>Belgium</b>	No Valid Audit
TOO Tau-Ken-Altyn	<b>Kazakhstan</b>	No Valid Audit
Universal Precious Metals Refining Zambia	<b>Zambia</b>	No Valid Audit
Elemetal Refining, LLC	<b>United States of America</b>	Temporarily Ceased Operations

## Metal type: Tantalum

<b>Standard Smelter Name</b>	<b>Country</b>	<b>RMAP Conformant</b>
Changsha South Tantalum Niobium Co., Ltd.	<b>Taiwan</b>	Conformant
Guangdong Rising Rare Metals-EO Materials Ltd.	<b>Brazil</b>	Conformant
Duoluoshan	<b>Thailand</b>	No valid audit
Exotech Inc.	<b>Vietnam</b>	Conformant
F&X Electro-Materials Ltd.	<b>Brazil</b>	Conformant
Global Advanced Metals Aizu	<b>China</b>	Conformant
Global Advanced Metals Boyertown	<b>Japan</b>	Conformant
Guangdong Zhiyuan New Material Co., Ltd.	<b>Germany</b>	Conformant
H.C. Starck Tantalum and Niobium GmbH	<b>Brazil</b>	Conformant
H.C. Starck Inc.	<b>Switzerland</b>	Conformant
Hengyang King Xing Lifeng New Materials Co., Ltd.	<b>Japan</b>	Conformant
JiuJiang JinXin Nonferrous Metals Co., Ltd.	<b>United States of America</b>	Conformant
LSM Brasil S.A.	<b>Japan</b>	Conformant
Mineracao Taboca S.A.	<b>Germany</b>	Conformant
NPM Silmet AS	<b>Philippines</b>	Conformant
Ningxia Orient Tantalum Industry Co., Ltd.	<b>Sweden</b>	Conformant
Solikamsk Magnesium Works OAO	<b>Canada</b>	Conformant
Telex Metals	<b>Italy</b>	Conformant
Ulba Metallurgical Plant JSC	<b>Japan</b>	Conformant
Mitsui Mining and Smelting Co., Ltd.	<b>United States of America</b>	Conformant
Jiujiang Tanbre Co., Ltd.	<b>Germany</b>	Conformant
Taki Chemical Co., Ltd.	<b>China</b>	Conformant
H.C. Starck Co., Ltd.	<b>Germany</b>	Conformant
H.C. Starck Hermsdorf GmbH	<b>Turkey</b>	Conformant
H.C. Starck Ltd.	<b>China</b>	Conformant
H.C. Starck Smelting GmbH & Co. KG	<b>Russian Federation</b>	Conformant
Metallurgical Products India Pvt., Ltd.	<b>Japan</b>	Conformant

QuantumClean	Republic of Korea	Conformant
RFH Tantalum Smeltery Co., Ltd./Yanling Jincheng Tantalum & Niobium Co., Ltd.	United States of America	Conformant
D Block Metals, LLC	China	Conformant
FIR Metals & Resource Ltd.	Singapore	Conformant
Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	Switzerland	Conformant
XinXing HaoRong Electronic Material Co., Ltd.	United States of America	Conformant
Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	Mexico	Conformant
KEMET Blue Metals	Japan	Conformant
KEMET Blue Powder	Japan	Conformant
Resind Industria e Comercio Ltda.	Japan	Conformant
Jiangxi Tuohong New Raw Material	China	Conformant
Power Resources Ltd.	Macedonia, The Former Yugoslav Republic of	Active
Yichun Jin Yang Rare Metal Co., Ltd.	China	Conformant

## Metal type: Tin

Standard Smelter Name	Country	RMAP Conformant
Yunnan Tin Company Limited	China	Conformant
Malaysia Smelting Corporation (MSC)	Malaysia	Conformant
Alpha	United States	Conformant
China Tin Group Co., Ltd.	China	Conformant
CV Ayi Jaya	Indonesia	Conformant
CV Gita Pesona	Indonesia	Conformant
PT Premium Tin Indonesia	Indonesia	Conformant
CV United Smelting	Indonesia	Conformant
CV Venus Inti Perkasa	Indonesia	Conformant
Dowa	Japan	Conformant
Metallo Spain S.L.U.	Spain	Conformant
EM Vinto	Bolivia	Conformant
Fenix Metals	Poland	Conformant
Gejiu Non-Ferrous Metal Processing Co., Ltd.	China	Conformant
Jiangxi Ketai Advanced Material Co., Ltd.	China	Conformant
Magnu's Minerai's Metais e Ligas Ltda.	Brazil	Conformant
Melt Metais e Ligas S.A.	Brazil	Conformant
Metallic Resources, Inc.	United States	Conformant
Metallo Belgium N.V.	Belgium	Conformant
Mineracao Taboca S.A.	Brazil	Conformant
Minsur	Peru	Conformant
Mitsubishi Materials Corporation	Japan	Conformant
O.M. Manufacturing (Thailand) Co., Ltd.	Thailand	Conformant
O.M. Manufacturing Philippines, Inc.	Philippines	Conformant

Operaciones Metalurgical S.A.	<b>Bolivia</b>	Conformant
PT Aries Kencana Sejahtera	<b>Indonesia</b>	Conformant
PT Artha Cipta Langgeng	<b>Indonesia</b>	Conformant
PT ATD Makmur Mandiri Jaya	<b>Indonesia</b>	Conformant
PT Babel Inti Perkasa	<b>Indonesia</b>	Conformant
PT Bangka Prima Tin	<b>Indonesia</b>	Conformant
PT Bangka Tin Industry	<b>Indonesia</b>	Conformant
PT Belitung Industri Sejahtera	<b>Indonesia</b>	Conformant
PT Bukit Timah	<b>Indonesia</b>	Conformant
PT DS Jaya Abadi	<b>Indonesia</b>	Conformant
PT Eunindo Usaha Mandiri	<b>Indonesia</b>	Conformant
PT Inti Stania Prima	<b>Indonesia</b>	Conformant
PT Mitra Stania Prima	<b>Indonesia</b>	Conformant
PT Panca Mega Persada	<b>Indonesia</b>	Conformant
PT Prima Timah Utama	<b>Indonesia</b>	Conformant
PT Refined Bangka Tin	<b>Indonesia</b>	Conformant
PT Sariwiguna Binasentosa	<b>Indonesia</b>	Conformant
PT Stanindo Inti Perkasa	<b>Indonesia</b>	Conformant
PT Sumber Jaya Indah	<b>Indonesia</b>	Conformant
PT Timah (Persero) Tbk Kundur	<b>Indonesia</b>	Conformant
PT Timah (Persero) Tbk Mentok	<b>Indonesia</b>	Conformant
PT Tinindo Inter Nusa	<b>Indonesia</b>	Conformant
Resind Industria e Comercio Ltda.	<b>Brazil</b>	Conformant
Rui Da Hung	<b>Taiwan</b>	Conformant
Soft Metais Ltda.	<b>Brazil</b>	Conformant
Thaisarco	<b>Thailand</b>	Conformant
White Solder Metalurgia e Mineracao Ltda.	<b>Brazil</b>	Conformant
Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	<b>China</b>	Conformant
An Vinh Joint Stock Mineral Processing Company	<b>Vietnam</b>	No valid audit
Estanho de Rondonia S.A.	<b>Brazil</b>	No valid audit
Gejiu Kai Meng Industry and Trade LLC	<b>China</b>	Conformant
Gejiu Zili Mining And Metallurgy Co., Ltd.	<b>China</b>	No valid audit
Huichang Jinshunda Tin Co., Ltd.	<b>China</b>	Conformant
Jiangxi New Nanshan Technology Ltd.	<b>China</b>	Conformant
PT Karimun Mining	<b>Indonesia</b>	Conformant
Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	<b>China</b>	Conformant
CV Dua Sekawan	<b>Indonesia</b>	Conformant
Gejiu Fengming Metallurgy Chemical Plant	<b>China</b>	Conformant
Gejiu Jinye Mineral Company	<b>China</b>	Conformant
Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	<b>China</b>	Conformant
Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	<b>China</b>	Conformant
Guanyang Guida Nonferrous Metal Smelting Plant	<b>China</b>	Conformant
HuiChang Hill Tin Industry Co., Ltd.	<b>China</b>	Conformant
PT Kijang Jaya Mandiri	<b>Indonesia</b>	Conformant
PT Lautan Harmonis Sejahtera	<b>Indonesia</b>	Conformant
PT Menara Cipta Mulia	<b>Indonesia</b>	Conformant

PT Rajehan Ariq	<b>Indonesia</b>	Conformant
PT Sukses Inti Makmur	<b>Indonesia</b>	Conformant
PT Tommy Utama	<b>Indonesia</b>	Conformant
Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company	<b>Vietnam</b>	No valid audit
Modeltech Sdn Bhd	<b>Malaysia</b>	Active
Nghe Tinh Non-Ferrous Metals Joint Stock Company	<b>Vietnam</b>	No valid audit
Super Ligas	<b>Brazil</b>	No valid audit
Tuyen Quang Non-Ferrous Metals Joint Stock Company	<b>Vietnam</b>	No valid audit
CNMC (Guangxi) PGMA Co., Ltd.	<b>China</b>	Temporarily Ceased Operations

## Metal type: Tungsten

<b>Standard Smelter Name</b>	<b>Country</b>	<b>RMAP Conformant</b>
Chongyi Zhangyuan Tungsten Co., Ltd.	<b>China</b>	Conformant
Ganzhou Huaxing Tungsten Products Co., Ltd.	<b>China</b>	Conformant
Ganzhou Seadragon W & Mo Co., Ltd.	<b>China</b>	Conformant
Hunan Chunchang Nonferrous Metals Co., Ltd.	<b>China</b>	Conformant
Xiamen Tungsten (H.C.) Co., Ltd.	<b>China</b>	Conformant
Xiamen Tungsten Co., Ltd.	<b>China</b>	Conformant
Global Tungsten & Powders Corp.	<b>United States</b>	Conformant
Wolfram Bergbau und Hutten AG	<b>Austria</b>	Conformant
H.C. Starck Tungsten GmbH	<b>Germany</b>	Conformant
Chenzhou Diamond Tungsten Products Co., Ltd.	<b>China</b>	Conformant
A.L.M.T. TUNGSTEN Corp.	<b>Japan</b>	Conformant
ACL Metais Eireli	<b>Brazil</b>	Conformant
Asia Tungsten Products Vietnam Ltd.	<b>Vietnam</b>	Conformant
Fujian Jinxin Tungsten Co., Ltd.	<b>China</b>	Conformant
Ganzhou Jiangwu Ferrotungsten Co., Ltd.	<b>China</b>	Conformant
Guangdong Xianglu Tungsten Co., Ltd.	<b>China</b>	Conformant
H.C. Starck Smelting GmbH & Co. KG	<b>Germany</b>	Conformant
Hunan Chenzhou Mining Co., Ltd.	<b>China</b>	Conformant
Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	<b>China</b>	Conformant
Hydrometallurg, JSC	<b>Russian Federation</b>	Conformant
Japan New Metals Co., Ltd.	<b>Japan</b>	Conformant
Jiangwu H.C. Starck Tungsten Products Co., Ltd.	<b>China</b>	Conformant
Jiangxi Gan Bei Tungsten Co., Ltd.	<b>China</b>	Conformant
Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	<b>China</b>	Conformant
Jiangxi Xinsheng Tungsten Industry Co., Ltd.	<b>China</b>	Conformant
Jiangxi Yaosheng Tungsten Co., Ltd.	<b>China</b>	Conformant
Kennametal Fallon	<b>United States of America</b>	Conformant
Kennametal Huntsville	<b>United States of America</b>	Conformant

Malipo Haiyu Tungsten Co., Ltd.	<b>China</b>	Conformant
Niagara Refining LLC	<b>United States of America</b>	Conformant
Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC	<b>Vietnam</b>	Conformant
Tejing (Vietnam) Tungsten Co., Ltd.	<b>Vietnam</b>	Conformant
Vietnam Youngsun Tungsten Industry Co., Ltd.	<b>Vietnam</b>	Conformant
Xinhai Rendan Shaoguan Tungsten Co., Ltd.	<b>China</b>	Conformant