

Fairphone Suppliers, Smelters and Refiners

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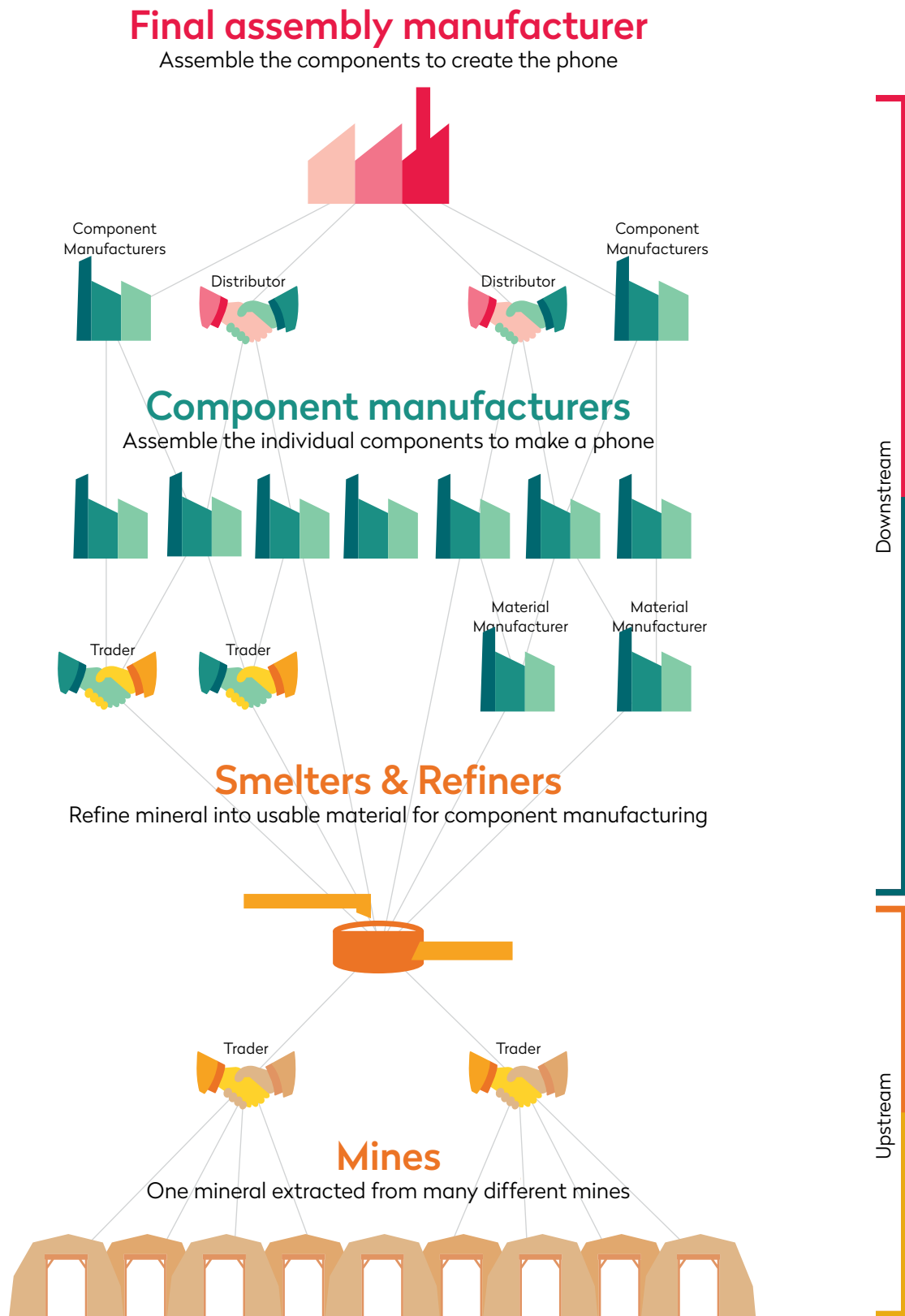
Transparency: the first step in fairer supply chains

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.

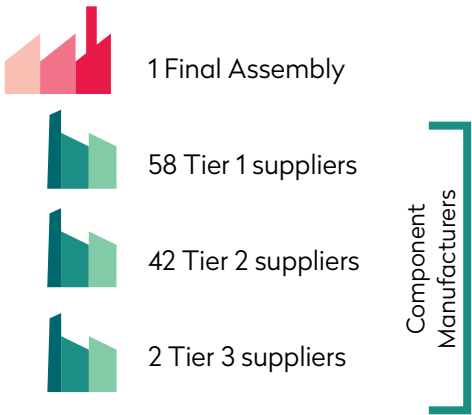
Fairphone 2 suppliers at a glance

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, China	www.hi-p.com

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

Passives

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

Electromechanical, MEMS

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

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

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

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, Japan	www.j-display.com
Taiwan Display Inc (TDI)	Manufacturer: 2, East 13th St. K. E. P. Z. Kaohsiung 806, Taiwan	www.j-display.com
Truly Semiconductors	Manufacturer: North Of The Dong Chong Road, Truly Industrial Area, Shanwei, Guangdong Province, China	www.trulysemi.com

Cameras

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

Lenses

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

Printed Circuit Board

Supplier	Address: Manufacturer or Headquarters	Website
AT&S* ★ Program	Manufacturer: 5000 Jindu Road, Minhang District, Shanghai, China	www.ats.net

Flexible Printed Circuits

Supplier	Address: Manufacturer or Headquarters	Website
Hi-P Suzhou Flex* ★ Program	Manufacturer: 86 LiuFeng Road, WuZhong District, Suzhou, China	www.hi-p.com

Soldering Paste

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

Battery

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

Plastics and Rubbers

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

Shields, Metal Parts, Screws, Inserts

Supplier	Address: Manufacturer or Headquarters	Website
LaiMu	Manufacturer: 8 Sheng Long Road, Jiuting Town, Songjiang District, Shanghai, China	www.laimu.company.weiku.com
PenEngineering (PEM)	Headquarters: 5190 Old Easton Road, Danboro, Pennsylvania 18916, USA	www.pemnet.com
PSM International	Manufacturer: Binhu Qu, Wuxi Shi, Jiangsu Sheng 214028, China	www.psminternational.com
Nippon Seisen	Manufacturer: 1 Chome-14-17 Ikenomiya Hirakata-shi, Ōsaka-fu 573-0005, Japan	www.n-seisen.co.jp
TengMei	Manufacturer: 6, Shi Chang Bei Street, Fu Hai Road, Xiagang Community, Changan, Dongguan, Guangdong, China	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, China	www.fabritech.net
Kunshan Youwei Electronic Materials	Manufacturer: 555 HonGuang Road, Kunshan 215316, China	www.ksyw.cn
Parker Chomerics	Headquarters: 77 Dragon Ct, Woburn, Massachusetts 01801, USA	www.chomerics.com
Rogers Corporation	Headquarters: One Technology Drive, Rogers, Connecticut 06263, USA	www.rogerscorp.com
Saati	Headquarters: Via Milano 14, 22070 Appiano Gentile, Italy	www.saati.com

Adhesives

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

Finished metal solutions

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

Packaging

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

Headphones (for the French market)

Supplier	Address: Headquarters	Website
Foster Electrics	Headquarters: 1-1-109 Tsutsujigaoka, Akishima City, Tokyo, 196-8550, Japan	www.foster-electric.com

Integrated Circuits

Supplier	Address: Headquarters	Website
Qualcomm	Headquarters: 5775 Morehouse Drive, San Diego, California 92121, USA	www.qualcomm.com
Synaptics	Headquarters: 1251 McKay Drive, San José, California 95131, USA	www.synaptics.com

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.

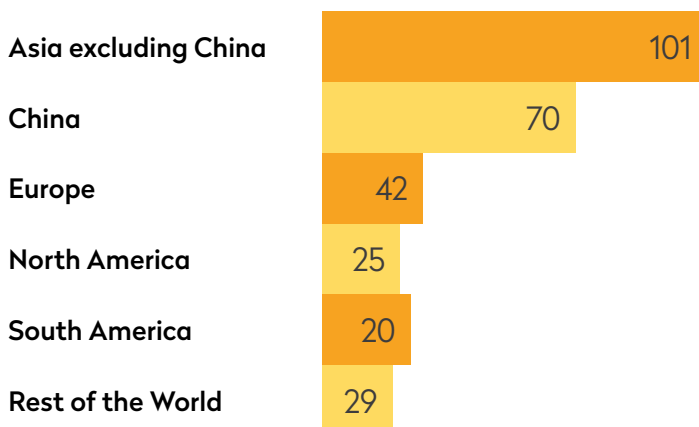
We have already found more responsible sources of tin, tantalum, tungsten and gold, and worked with mines, smelters, suppliers and a wide range of other parties to integrate them into the supply chain of specific components aiming to grow volumes to more and more components in time. In 2017, we conducted 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.	Japan	Conformant
Allgemeine Gold-und Silberscheideanstalt A.G.	Germany	Conformant
AngloGold Ashanti Corrego do Sitio Mineracao	Brazil	Conformant
Argor-Heraeus S.A.	Switzerland	Conformant
Asahi Pretec Corp.	Japan	Conformant
Asaka Riken Co., Ltd.	Japan	Conformant
Atasay Kuyumculuk Sanayi Ve Ticaret A.S.	Turkey	No valid audit
Aurubis AG	Germany	Conformant
Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	Philippines	Conformant
Boliden AB	Sweden	Conformant
C. Hafner GmbH + Co. KG	Germany	Conformant
CCR Refinery - Glencore Canada Corporation	Canada	Conformant
Cendres + Metaux S.A.	Switzerland	Conformant
Chimet S.p.A.	Italy	Conformant
DODUCO Contacts and Refining GmbH	Germany	Conformant
Dowa	Japan	Conformant
Eco-System Recycling Co., Ltd.	Japan	Conformant
Heimerle + Meule GmbH	Germany	Conformant
Heraeus Metals Hong Kong Ltd.	China	Conformant
Heraeus Precious Metals GmbH & Co. KG	Germany	Conformant
Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	China	Conformant
Ishifuku Metal Industry Co., Ltd.	Japan	Conformant
Istanbul Gold Refinery	Turkey	Conformant
Japan Mint	Japan	Conformant
Jiangxi Copper Co., Ltd.	China	Conformant
Asahi Refining USA Inc.	United States of America	Conformant
Asahi Refining Canada Ltd.	Canada	Conformant
JSC Ekaterinburg Non-Ferrous Metal Processing Plant	Russian Federation	Conformant
JSC Uralelectromed	Russian Federation	Conformant
JX Nippon Mining & Metals Co., Ltd.	Japan	Conformant
Kennecott Utah Copper LLC	United States of America	Conformant
Kojima Chemicals Co., Ltd.	Japan	Conformant
Lazurde Company For Jewelry	Saudi Arabia	No valid audit
LS-NIKKO Copper Inc.	Republic of Korea	Conformant
Materion	United States of America	Conformant
Matsuda Sangyo Co., Ltd.	Japan	Conformant

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

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

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

Metal type: Tantalum

Standard Smelter Name	Country	RMAP Conformant
Changsha South Tantalum Niobium Co., Ltd.	Taiwan	Conformant
Guangdong Rising Rare Metals-EO Materials Ltd.	Brazil	Conformant
Duoluoshan	Thailand	No valid audit
Exotech Inc.	Vietnam	Conformant
F&X Electro-Materials Ltd.	Brazil	Conformant
Global Advanced Metals Aizu	China	Conformant
Global Advanced Metals Boyertown	Japan	Conformant
Guangdong Zhiyuan New Material Co., Ltd.	Germany	Conformant
H.C. Starck Tantalum and Niobium GmbH	Brazil	Conformant
H.C. Starck Inc.	Switzerland	Conformant
Hengyang King Xing Lifeng New Materials Co., Ltd.	Japan	Conformant
Jiujiang JinXin Nonferrous Metals Co., Ltd.	United States of America	Conformant
LSM Brasil S.A.	Japan	Conformant
Mineracao Taboca S.A.	Germany	Conformant
NPM Silmet AS	Philippines	Conformant
Ningxia Orient Tantalum Industry Co., Ltd.	Sweden	Conformant
Solikamsk Magnesium Works OAO	Canada	Conformant
Telex Metals	Italy	Conformant
Ulba Metallurgical Plant JSC	Japan	Conformant
Mitsui Mining and Smelting Co., Ltd.	United States of America	Conformant
Jiujiang Tanbre Co., Ltd.	Germany	Conformant
Taki Chemical Co., Ltd.	China	Conformant
H.C. Starck Co., Ltd.	Germany	Conformant
H.C. Starck Hermsdorf GmbH	Turkey	Conformant
H.C. Starck Ltd.	China	Conformant
H.C. Starck Smelting GmbH & Co. KG	Russian Federation	Conformant
Metallurgical Products India Pvt., Ltd.	Japan	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.	Bolivia	Conformant
PT Aries Kencana Sejahtera	Indonesia	Conformant
PT Artha Cipta Langgeng	Indonesia	Conformant
PT ATD Makmur Mandiri Jaya	Indonesia	Conformant
PT Babel Inti Perkasa	Indonesia	Conformant
PT Bangka Prima Tin	Indonesia	Conformant
PT Bangka Tin Industry	Indonesia	Conformant
PT Belitung Industri Sejahtera	Indonesia	Conformant
PT Bukit Timah	Indonesia	Conformant
PT DS Jaya Abadi	Indonesia	Conformant
PT Eunindo Usaha Mandiri	Indonesia	Conformant
PT Inti Stania Prima	Indonesia	Conformant
PT Mitra Stania Prima	Indonesia	Conformant
PT Panca Mega Persada	Indonesia	Conformant
PT Prima Timah Utama	Indonesia	Conformant
PT Refined Bangka Tin	Indonesia	Conformant
PT Sariwiguna Binasentosa	Indonesia	Conformant
PT Stanindo Inti Perkasa	Indonesia	Conformant
PT Sumber Jaya Indah	Indonesia	Conformant
PT Timah (Persero) Tbk Kundur	Indonesia	Conformant
PT Timah (Persero) Tbk Mentok	Indonesia	Conformant
PT Tinindo Inter Nusa	Indonesia	Conformant
Resind Industria e Comercio Ltda.	Brazil	Conformant
Rui Da Hung	Taiwan	Conformant
Soft Metais Ltda.	Brazil	Conformant
Thaisarco	Thailand	Conformant
White Solder Metalurgia e Mineracao Ltda.	Brazil	Conformant
Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	China	Conformant
An Vinh Joint Stock Mineral Processing Company	Vietnam	No valid audit
Estanho de Rondonia S.A.	Brazil	No valid audit
Gejiu Kai Meng Industry and Trade LLC	China	Conformant
Gejiu Zili Mining And Metallurgy Co., Ltd.	China	No valid audit
Huichang Jinshunda Tin Co., Ltd.	China	Conformant
Jiangxi New Nanshan Technology Ltd.	China	Conformant
PT Karimun Mining	Indonesia	Conformant
Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	China	Conformant
CV Dua Sekawan	Indonesia	Conformant
Gejiu Fengming Metallurgy Chemical Plant	China	Conformant
Gejiu Jinye Mineral Company	China	Conformant
Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	China	Conformant
Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	China	Conformant
Guanyang Guida Nonferrous Metal Smelting Plant	China	Conformant
HuiChang Hill Tin Industry Co., Ltd.	China	Conformant
PT Kijang Jaya Mandiri	Indonesia	Conformant
PT Lautan Harmonis Sejahtera	Indonesia	Conformant
PT Menara Cipta Mulia	Indonesia	Conformant

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

Metal type: Tungsten

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

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