



# Smelter and Refiner List

December 2017

This smelter and refiner list includes smelters and refiners identified in Apple’s supply chain as of December 31, 2017.

## Third Party Audit Status

Compliant denotes smelters and refiners verified as compliant by a recognized third-party audit program or equivalent.

Participating denotes smelters and refiners that have agreed to participate in a recognized third-party audit, equivalent audit, or supervised corrective action plan and are actively engaged in that process.

For more details and the most current status of each smelter or refiner, visit the Responsible Minerals Assurance Process (RMAP) website at [www.responsiblemineralsinitiative.org](http://www.responsiblemineralsinitiative.org) and LBMA’s Good Delivery list at [www.lbma.org.uk/the-good-delivery-list](http://www.lbma.org.uk/the-good-delivery-list), or company websites.

## Risk Readiness Assessment Status

As part of the Organisation for Economic Co-operation and Development (OECD) guidance, supply chain actors should identify and report on their risks. Apple has developed a holistic tool for supply chain risks reporting called the Risk Readiness Assessment (RRA). The RRA covers general reporting of each company’s risk readiness across a number of different risk issue areas. Apple may approve, on a case-by-case basis, other risk reporting tools that provide equivalent information.

Completed denotes smelters and refiners that have completed and disclosed to Apple a Risk Readiness Assessment or an equivalent Apple approved supply chain risk reporting tool.

Not Completed denotes smelters and refiners that have not completed and disclosed to Apple a Risk Readiness Assessment or an equivalent Apple approved supply chain risk reporting tool.

<u>Metal</u>	<u>Smelter Name</u>	<u>Country</u>	<u>Third Party Audit Status</u>	<u>Risk Readiness Assessment Status</u>
● Gold	Advanced Chemical Co.*	United States	Compliant	Completed
● Gold	Aida Chemical Industries Co., Ltd.*	Japan	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Gold	Al Etihad Gold LLC	United Arab Emirates	Compliant	Completed
● Gold	Allgemeine Gold-und Silberscheideanstalt AG*	Germany	Compliant	Completed
● Gold	Almalyk Mining and Metallurgical Complex	Uzbekistan	Compliant	Not Completed
● Gold	AngloGold Ashanti Córrego do Sítio Mineração	Brazil	Compliant	Not Completed
● Gold	Argor-Heraeus S.A.	Switzerland	Compliant	Completed
● Gold	Asahi Pretec Corp.*	Japan	Compliant	Completed
● Gold	Asahi Refining Canada Ltd.	Canada	Compliant	Completed
● Gold	Asahi Refining USA Inc.	United States	Compliant	Completed
● Gold	Asaka Riken Co., Ltd.*	Japan	Compliant	Completed
● Gold	AU Traders and Refiners	South Africa	Compliant	Not Completed
● Gold	Aurubis AG	Germany	Compliant	Completed
● Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)**	Philippines	Compliant	Not Completed
● Gold	Boliden AB	Sweden	Compliant	Completed
● Gold	C. Hafner GmbH + Co. KG*	Germany	Compliant	Completed
● Gold	CCR Refinery – Glencore Canada Corp.	Canada	Compliant	Completed
● Gold	Chimet S.p.A.	Italy	Compliant	Not Completed
● Gold	Daejin Indus Co., Ltd.*	Republic of Korea	Compliant	Not Completed
● Gold	Daye Non-Ferrous Metals Mining Ltd.	China	Compliant	Not Completed
● Gold	DODUCO Contacts and Refining GmbH*	Germany	Compliant	Completed
● Gold	Dowa	Japan	Compliant	Completed
● Gold	DSC (Do Sung Corp.)	Republic of Korea	Compliant	Not Completed
● Gold	Eco-System Recycling Co., Ltd.*	Japan	Compliant	Completed
● Gold	Emirates Gold DMCC	United Arab Emirates	Compliant	Completed
● Gold	Geib Refining Corp.*	United States	Compliant	Completed
● Gold	Gold Refinery of Zijin Mining Group Co., Ltd.	China	Compliant	Not Completed
● Gold	Great Wall Precious Metals Co., Ltd. of CBPM	China	Compliant	Not Completed
● Gold	HeeSung Metal Ltd.*	Republic of Korea	Compliant	Not Completed
● Gold	Heimerle + Meule GmbH*	Germany	Compliant	Completed
● Gold	Heraeus Metals Hong Kong Ltd.	Hong Kong	Compliant	Completed
● Gold	Heraeus Precious Metals GmbH & Co. KG	Germany	Compliant	Completed
● Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	China	Compliant	Not Completed
● Gold	Ishifuku Metal Industry Co., Ltd.*	Japan	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Gold	Istanbul Gold Refinery	Turkey	Compliant	Completed
● Gold	Italpreziosi	Italy	Compliant	Completed
● Gold	Japan Mint*	Japan	Compliant	Completed
● Gold	Jiangxi Copper Co., Ltd.	China	Compliant	Not Completed
● Gold	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	Russia	Compliant	Completed
● Gold	JSC UralElectromed	Russia	Compliant	Not Completed
● Gold	JX Nippon Mining & Metals Co., Ltd.	Japan	Compliant	Completed
● Gold	Kazzinc	Kazakhstan	Compliant	Not Completed
● Gold	Kennecott Utah Copper LLC	United States	Compliant	Completed
● Gold	Kojima Chemicals Co., Ltd.*	Japan	Compliant	Completed
● Gold	Korea Zinc Co., Ltd.	Republic of Korea	Compliant	Not Completed
● Gold	Kyrgyzaltyn JSC	Kyrgyzstan	Compliant	Completed
● Gold	LS-NIKKO Copper Inc.	Republic of Korea	Compliant	Completed
● Gold	Materion	United States	Compliant	Completed
● Gold	Matsuda Sangyo Co., Ltd.*	Japan	Compliant	Completed
● Gold	Metalor Technologies (Hong Kong) Ltd.	Hong Kong	Compliant	Completed
● Gold	Metalor Technologies S.A.	Switzerland	Compliant	Completed
● Gold	Metalor Technologies (Singapore) Pte., Ltd.	Singapore	Compliant	Completed
● Gold	Metalor Technologies (Suzhou) Ltd.	China	Compliant	Completed
● Gold	Metalor USA Refining Corp.	United States	Compliant	Completed
● Gold	Metalúrgica Met-Mex Peñoles S.A. de C.V.	Mexico	Compliant	Not Completed
● Gold	Mitsubishi Materials Corp.	Japan	Compliant	Completed
● Gold	Mitsui Mining and Smelting Co., Ltd.	Japan	Compliant	Completed
● Gold	MMTC-PAMP India Pvt., Ltd.	India	Compliant	Completed
● Gold	Moscow Special Alloys Processing Plant	Russia	Compliant	Not Completed
● Gold	Nadir Metal Rafineri San. Ve Tic A.Ş.	Turkey	Compliant	Completed
● Gold	Navoi Mining and Metallurgical Combinat	Uzbekistan	Compliant	Not Completed
● Gold	Nihon Material Co., Ltd.*	Japan	Compliant	Completed
● Gold	Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH*	Austria	Compliant	Completed
● Gold	Ohura Precious Metal Industry Co., Ltd.	Japan	Compliant	Completed
● Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	Russia	Compliant	Completed
● Gold	OJSC Novosibirsk Refinery	Russia	Compliant	Completed
● Gold	PAMP S.A.	Switzerland	Compliant	Completed
● Gold	Prioksky Plant of Non-Ferrous Metals	Russia	Compliant	Not Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Gold	PT Aneka Tambang (Persero) Tbk	Indonesia	Compliant	Not Completed
● Gold	PX Précinox S.A.	Switzerland	Compliant	Completed
● Gold	Rand Refinery (Pty) Ltd.	South Africa	Compliant	Completed
● Gold	The Refinery of Shandong Gold Mining Co., Ltd.	China	Compliant	Not Completed
● Gold	Republic Metals Corp.	United States	Compliant	Completed
● Gold	Royal Canadian Mint	Canada	Compliant	Completed
● Gold	SAAMP	France	Compliant	Not Completed
● Gold	Samduck Precious Metals*	Republic of Korea	Compliant	Not Completed
● Gold	SAXONIA Edelmetalle GmbH*	Germany	Compliant	Completed
● Gold	Schone Edelmetaal B.V.*	Netherlands	Compliant	Completed
● Gold	SEMPSA Joyería Platería S.A.	Spain	Compliant	Completed
● Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	China	Compliant	Not Completed
● Gold	Sichuan Tianze Precious Metals Co., Ltd.	China	Compliant	Not Completed
● Gold	Singway Technology Co., Ltd.*	Taiwan	Compliant	Completed
● Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	Russia	Compliant	Completed
● Gold	Solar Applied Materials Technology Corp.*	Taiwan	Compliant	Completed
● Gold	Sumitomo Metal Mining Co., Ltd.	Japan	Compliant	Completed
● Gold	SungEel HiMetal Co., Ltd.*	Republic of Korea	Compliant	Completed
● Gold	T.C.A. S.p.A.*	Italy	Compliant	Completed
● Gold	Tanaka Kikinzoku Kogyo K.K.	Japan	Compliant	Completed
● Gold	Tokuriki Honten Co., Ltd.	Japan	Compliant	Completed
● Gold	Torecom*	Republic of Korea	Compliant	Completed
● Gold	Umicore Brasil Ltda.	Brazil	Compliant	Completed
● Gold	Umicore Precious Metals Thailand*	Thailand	Compliant	Completed
● Gold	Umicore S.A. Business Unit Precious Metals Refining	Belgium	Compliant	Completed
● Gold	United Precious Metal Refining Inc.*	United States	Compliant	Completed
● Gold	Valcambi S.A.	Switzerland	Compliant	Completed
● Gold	Western Australian Mint trading as The Perth Mint	Australia	Compliant	Completed
● Gold	Wieland Edelmetalle GmbH*	Germany	Compliant	Completed
● Gold	Yamakin Co., Ltd.*	Japan	Compliant	Completed
● Gold	Yokohama Metal Co., Ltd.*	Japan	Compliant	Completed
● Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corp.	China	Compliant	Not Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Tantalum	Changsha South Tantalum Niobium Co., Ltd.*	China	Compliant	Completed
● Tantalum	D Block Metals LLC*	United States	Compliant	Completed
● Tantalum	Exotech Inc.*	United States	Compliant	Completed
● Tantalum	F&X Electro-Materials Ltd.	China	Compliant	Completed
● Tantalum	FIR Metals & Resource Ltd.	China	Compliant	Completed
● Tantalum	Global Advanced Metals Aizu	Japan	Compliant	Completed
● Tantalum	Global Advanced Metals Boyertown	United States	Compliant	Completed
● Tantalum	Guangdong Rising Rare Metals-EO Materials Ltd.	China	Compliant	Completed
● Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	China	Compliant	Completed
● Tantalum	H.C. Starck Co., Ltd.	Thailand	Compliant	Completed
● Tantalum	H.C. Starck Hermsdorf GmbH	Germany	Compliant	Completed
● Tantalum	H.C. Starck Inc.	United States	Compliant	Completed
● Tantalum	H.C. Starck Ltd.	Japan	Compliant	Completed
● Tantalum	H.C. Starck Smelting GmbH & Co. KG	Germany	Compliant	Completed
● Tantalum	H.C. Starck Tantalum and Niobium GmbH	Germany	Compliant	Completed
● Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	China	Compliant	Completed
● Tantalum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	China	Compliant	Not Completed
● Tantalum	Jiangxi Tuohong New Raw Material	China	Compliant	Completed
● Tantalum	Jiujiang JinXin Nonferrous Metals Co., Ltd.	China	Compliant	Completed
● Tantalum	Jiujiang Tanbre Co., Ltd.	China	Compliant	Completed
● Tantalum	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	China	Compliant	Not Completed
● Tantalum	Kemet Blue Metals	Mexico	Compliant	Completed
● Tantalum	Kemet Blue Powder	United States	Compliant	Completed
● Tantalum	King-Tan Tantalum Industry Ltd.	China	Compliant	Not Completed
● Tantalum	LSM Brasil S.A.	Brazil	Compliant	Completed
● Tantalum	Metallurgical Products India Pvt., Ltd.	India	Compliant	Completed
● Tantalum	Mineração Taboca S.A.	Brazil	Compliant	Completed
● Tantalum	Mitsui Mining and Smelting Co., Ltd.	Japan	Compliant	Completed
● Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	China	Compliant	Completed
● Tantalum	NPM Silmet A.S.	Estonia	Compliant	Completed
● Tantalum	Power Resources Ltd.	Macedonia	Compliant	Completed
● Tantalum	QuantumClean*	United States	Compliant	Completed
● Tantalum	Resind Indústria e Comércio Ltda.*	Brazil	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<u>Metal</u>	<u>Smelter Name</u>	<u>Country</u>	<u>Third Party Audit Status</u>	<u>Risk Readiness Assessment Status</u>
● Tantalum	RFH Tantalum Smeltery Co., Ltd./ Yanling Jincheng Tantalum & Niobium Co., Ltd.*	China	Compliant	Completed
● Tantalum	Solikamsk Magnesium Works OAO	Russia	Compliant	Completed
● Tantalum	Taki Chemical Co., Ltd.	Japan	Compliant	Completed
● Tantalum	Telex Metals	United States	Compliant	Completed
● Tantalum	Ulba Metallurgical Plant JSC	Kazakhstan	Compliant	Completed
● Tantalum	XinXing Haorong Electronic Material Co., Ltd.	China	Compliant	Not Completed
● Tantalum	Yichun Jin Yang Rare Metal Co., Ltd.	China	Compliant	Not Completed
● Tin	Alpha*	United States	Compliant	Completed
● Tin	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	China	Compliant	Completed
● Tin	China Tin Group Co., Ltd.	China	Compliant	Completed
● Tin	CV Ayi Jaya	Indonesia	Compliant	Completed
● Tin	CV Dua Sekawan	Indonesia	Compliant	Not Completed
● Tin	CV Gita Pesona	Indonesia	Compliant	Not Completed
● Tin	CV Tiga Sekawan	Indonesia	Compliant	Not Completed
● Tin	CV United Smelting	Indonesia	Compliant	Completed
● Tin	CV Venus Inti Perkasa	Indonesia	Compliant	Completed
● Tin	Dowa	Japan	Compliant	Completed
● Tin	EM Vinto**	Bolivia	Compliant	Completed
● Tin	Fenix Metals*	Poland	Compliant	Completed
● Tin	Gejiu Fengming Metallurgy Chemical Plant	China	Compliant	Completed
● Tin	Gejiu Jinye Mineral Co.	China	Compliant	Completed
● Tin	Gejiu Kai Meng Industry and Trade LLC	China	Compliant	Completed
● Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	China	Compliant	Completed
● Tin	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	China	Compliant	Completed
● Tin	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	China	Compliant	Completed
● Tin	Guanyang Guida Nonferrous Metal Smelting Plant	China	Compliant	Completed
● Tin	Huichang Jinshunda Tin Co., Ltd.	China	Compliant	Completed
● Tin	Jiangxi Ketai Advanced Material Co., Ltd.	China	Compliant	Completed
● Tin	Magnu's Minerai's Metais e Ligas Ltda.	Brazil	Compliant	Completed
● Tin	Malaysia Smelting Corp. (MSC)	Malaysia	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Tin	Melt Metais e Ligas S.A.	Brazil	Compliant	Completed
● Tin	Metallic Resources Inc.*	United States	Compliant	Completed
● Tin	Metallo Belgium N.V.*	Belgium	Compliant	Completed
● Tin	Metallo Spain S.L.U.*	Spain	Compliant	Completed
● Tin	Mineração Taboca S.A.	Brazil	Compliant	Completed
● Tin	Minsur	Peru	Compliant	Completed
● Tin	Mitsubishi Materials Corp.*	Japan	Compliant	Completed
● Tin	O.M. Manufacturing (Thailand) Co., Ltd.*	Thailand	Compliant	Completed
● Tin	O.M. Manufacturing Philippines Inc.*	Philippines	Compliant	Completed
● Tin	Operaciones Metalurgical S.A.	Bolivia	Compliant	Completed
● Tin	PT Aries Kencana Sejahtera	Indonesia	Compliant	Completed
● Tin	PT Artha Cipta Langgeng	Indonesia	Compliant	Completed
● Tin	PT ATD Makmur Mandiri Jaya	Indonesia	Compliant	Completed
● Tin	PT Babel Inti Perkasa	Indonesia	Compliant	Completed
● Tin	PT Bangka Prima Tin	Indonesia	Compliant	Completed
● Tin	PT Bangka Tin Industry	Indonesia	Compliant	Completed
● Tin	PT Belitung Industri Sejahtera	Indonesia	Compliant	Completed
● Tin	PT Bukit Timah	Indonesia	Compliant	Completed
● Tin	PT DS Jaya Abadi	Indonesia	Compliant	Completed
● Tin	PT Eunindo Usaha Mandiri	Indonesia	Compliant	Completed
● Tin	PT Inti Stania Prima	Indonesia	Compliant	Completed
● Tin	PT Karimun Mining	Indonesia	Compliant	Not Completed
● Tin	PT Kijang Jaya Mandiri	Indonesia	Compliant	Completed
● Tin	PT Lautan Harmonis Sejahtera	Indonesia	Compliant	Completed
● Tin	PT Menara Cipta Mulia	Indonesia	Compliant	Completed
● Tin	PT Mitra Stania Prima	Indonesia	Compliant	Not Completed
● Tin	PT O.M. Indonesia	Indonesia	Compliant	Not Completed
● Tin	PT Panca Mega Persada	Indonesia	Compliant	Completed
● Tin	PT Premium Tin Indonesia	Indonesia	Compliant	Not Completed
● Tin	PT Prima Timah Utama	Indonesia	Compliant	Completed
● Tin	PT Refined Bangka Tin	Indonesia	Compliant	Completed
● Tin	PT Sariwiguna Binasentosa	Indonesia	Compliant	Completed
● Tin	PT Stanindo Inti Perkasa	Indonesia	Compliant	Completed
● Tin	PT Sukses Inti Makmur	Indonesia	Compliant	Completed
● Tin	PT Sumber Jaya Indah	Indonesia	Compliant	Not Completed
● Tin	PT Timah (Persero) Tbk Kundur	Indonesia	Compliant	Completed
● Tin	PT Timah (Persero) Tbk Mentok	Indonesia	Compliant	Completed
● Tin	PT Tinindo Inter Nusa	Indonesia	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Tin	PT Tommy Utama	Indonesia	Compliant	Completed
● Tin	Resind Indústria e Comércio Ltda.*	Brazil	Compliant	Completed
● Tin	Rui Da Hung	Taiwan	Compliant	Completed
● Tin	Soft Metais Ltda.	Brazil	Compliant	Completed
● Tin	Thaisarco	Thailand	Compliant	Completed
● Tin	White Solder Metalurgia e Mineração Ltda.	Brazil	Compliant	Completed
● Tin	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	China	Compliant	Completed
● Tin	Yunnan Tin Co., Ltd.	China	Compliant	Completed
● Tungsten	A.L.M.T. Tungsten Corp.	Japan	Compliant	Completed
● Tungsten	ACL Metais Eireli	Brazil	Compliant	Not Completed
● Tungsten	Asia Tungsten Products Vietnam Ltd.	Vietnam	Compliant	Completed
● Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	China	Compliant	Completed
● Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Fujian JinXin Tungsten Co., Ltd.	China	Compliant	Not Completed
● Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	China	Compliant	Completed
● Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	China	Compliant	Not Completed
● Tungsten	Global Tungsten & Powders Corp.	United States	Compliant	Completed
● Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	H.C. Starck Smelting GmbH & Co. KG	Germany	Compliant	Completed
● Tungsten	H.C. Starck Tungsten GmbH	Germany	Compliant	Completed
● Tungsten	Hunan Chenzhou Mining Co., Ltd.	China	Compliant	Completed
● Tungsten	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	China	Compliant	Not Completed
● Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	China	Compliant	Not Completed
● Tungsten	Hydrometallurg JSC	Russia	Compliant	Completed
● Tungsten	Japan New Metals Co., Ltd.	Japan	Compliant	Completed
● Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	China	Compliant	Not Completed
● Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	China	Compliant	Completed
● Tungsten	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	China	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed



<b>Metal</b>	<b>Smelter Name</b>	<b>Country</b>	<b>Third Party Audit Status</b>	<b>Risk Readiness Assessment Status</b>
● Tungsten	Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd.	China	Compliant	Not Completed
● Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Kennametal Fallon	United States	Compliant	Completed
● Tungsten	Kennametal Huntsville	United States	Compliant	Completed
● Tungsten	Malipo Haiyu Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Moliren Ltd.	Russia	Compliant	Completed
● Tungsten	Niagara Refining LLC	United States	Compliant	Completed
● Tungsten	Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC	Vietnam	Compliant	Completed
● Tungsten	Philippine Chuangxin Industrial Co., Inc.	Philippines	Compliant	Not Completed
● Tungsten	South-East Nonferrous Metal Co., Ltd. of Hengyang City	China	Compliant	Completed
● Tungsten	Tejing (Vietnam) Tungsten Co., Ltd.	Vietnam	Compliant	Completed
● Tungsten	Unecha Refractory Metals Plant	Russia	Compliant	Completed
● Tungsten	Vietnam Youngsun Tungsten Industry Co., Ltd.	Vietnam	Compliant	Not Completed
● Tungsten	Wolfram Bergbau und Hütten AG	Austria	Compliant	Completed
● Tungsten	Woltech Korea Co., Ltd.	Republic of Korea	Compliant	Completed
● Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	China	Compliant	Completed
● Tungsten	Xiamen Tungsten Co., Ltd.	China	Compliant	Completed
● Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	China	Compliant	Completed
● Tungsten	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	China	Compliant	Completed
● Cobalt	Freeport Cobalt Oy (Kokkola)	Finland	Compliant	Completed
● Cobalt	Gangzhou Yi Hao Umicore Industry Co. (Umicore)	China	Compliant	Completed
● Cobalt	GEM (JIANGSU) Cobalt Industry Co., Ltd., previously known as Jiangsu Cobalt Nickel Metal (KLK)	China	Participating	Completed
● Cobalt	Hunan Hina Advanced Material Co., Ltd.	China	Participating	Completed
● Cobalt	Hunan Yacheng New Materials Co., Ltd.	China	Participating	Completed
● Cobalt	Jingmen GEM Co., Ltd.	China	Participating	Completed
● Cobalt	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	China	Participating	Completed
● Cobalt	Umicore Olen (Umicore)	Belgium	Compliant	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

<u>Metal</u>	<u>Smelter Name</u>	<u>Country</u>	<u>Third Party Audit Status</u>	<u>Risk Readiness Assessment Status</u>
● Cobalt	Zhejiang Huayou Cobalt Co., Ltd.	China	Compliant	Completed
● Cobalt	Zhuhai Kelixin Metal Materials Co., Ltd.	China	Participating	Completed

\* Denotes the smelter or refiner exclusively as a recycler

\*\* The smelter or refiner is in the process of being removed

## For More Information

For more information about Apple's Supplier Responsibility program, visit [www.apple.com/supplier-responsibility](http://www.apple.com/supplier-responsibility).

© 2018 Apple Inc. All rights reserved. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. Other product and company names mentioned herein may be trademarks of their respective companies. This report is published annually and covers calendar year 2017 activities.