

List of tin, tantalum and tungsten (3Ts) smelters as of 2011

This 3T smelter list serves as a useful baseline to help better engage smelter companies on responsible sourcing of minerals from conflict and high risk areas. It was developed in the context of the 2012 **3T pilot implementation** programme of the **OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas**.

Various companies and experts have provided help in identifying 3T smelters. This list has been subject to several revisions based on calls to encourage stakeholders to share input and improve content. However, given the fast moving environment and lack of co-operation of some stakeholders, the table provides a non-exhaustive list of smelters. The OECD will not seek to keep this illustrative list up to date, since this would require constant monitoring work beyond the OECD's capacities. The information presented in this list should therefore always be reviewed by companies exercising their due diligence.

| | Country | Metal | Smelter Name |
|-----|---------|---------------|--|
| 1. | Austria | Tungsten (W) | Wolfram Bergbau-und Huetten-Gmbh Nfg KG |
| 2. | Belgium | Tin (Sn) | Metallo Chimique |
| 3. | Bolivia | Tin (Sn) | EM Vinto |
| 4. | Bolivia | Tin (Sn) | OMSA |
| 5. | Bolivia | Tin (Sn) | Complejo Metalurgico Vinto S.A. |
| 6. | Bolivia | Tin (Sn) | Senju Metal Industry Co., Ltd. |
| 7. | Bolivia | Tin (Sn) | SGS |
| 8. | Brazil | Tin (Sn) | Taboca/Paranapanema |
| 9. | Brazil | Tin (Sn) | Mineracao Toboca |
| 10. | Brazil | Tantalum (Ta) | Mineracao Toboca |
| 11. | Canada | Tungsten (W) | North American Tungsten |
| 12. | Canada | Tin (Sn) | Vale Inco, Ltd |
| 13. | Chile | Tin (Sn) | Chile |
| 14. | China | Tantalum(Ta) | Conghua Tantalum and Niobium |
| 15. | China | Tantalum(Ta) | Jiujiang Tangbre Co., Ltd |
| 16. | China | Tantalum(Ta) | Jiangmen Fuxiang Electro-materials Limited (F&X) |
| 17. | China | Tantalum(Ta) | Jiujiang Jinxin Nonferrous Metals Co., Ltd. |
| 18. | China | Tantalum(Ta) | Ningxia Orient Tantalum Industry Co., Ltd. |
| 19. | China | Tantalum(Ta) | Zhaoqing Duoluoshan Non-ferrous Metals Co.,Ltd |
| 20. | China | Tantalum(Ta) | Fogang Jiata Metals |

| Country | Metal | Smelter Name |
|----------------|--------------|---|
| 21. China | Tantalum(Ta) | Junde Technology |
| 22. China | Tantalum(Ta) | King-Tan Tantalum Industry Ltd |
| 23. China | Tantalum(Ta) | Taike Technology (Suzhou) |
| 24. China | Tantalum(Ta) | Yichun Jin Yang Rare Metals Co., Ltd |
| 25. China | Tantalum(Ta) | Zhuzhou Cemented Carbide |
| 26. China | Tin (Sn) | Yunnan Chengfeng Non-ferrous metals Co.,Ltd |
| 27. China | Tin (Sn) | Jiangxi Ganzhou Baita Non-ferrous Metals Powder Co.,Ltd |
| 28. China | Tin (Sn) | China Tin Group Co.,Ltd |
| 29. China | Tin (Sn) | Mengzi Bofa Mining & Smelting Co.,Ltd |
| 30. China | Tin (Sn) | Gejiu Jinge Mining & Smelting Co.,Ltd |
| 31. China | Tin (Sn) | Kunshan Chengli Tin Co., Ltd |
| 32. China | Tin (Sn) | Yunnan Tin Co., Ltd |
| 33. China | Tin (Sn) | China Tin Group Co.,Ltd Laibin Smelting Factory |
| 34. China | Tin (Sn) | Dongguan Qiandao Tin Co.,Ltd |
| 35. China | Tin (Sn) | Guixi Sanyuan Smelting Chemistry CO.,Ltd |
| 36. China | Tin (Sn) | Shaoxing Tianlong Tin Materials Co.,Ltd |
| 37. China | Tin (Sn) | Yuhuada Tin Co.,Ltd |
| 38. China | Tin (Sn) | Hongqiao Metals (Kunshan) Co.,Ltd |
| 39. China | Tin (Sn) | Shenzhen Jinpin Tin Co.,Ltd |
| 40. China | Tin (Sn) | Chongqing Huahao Smelting Co.,Ltd |
| 41. China | Tin (Sn) | Nankang Huashan Non-ferrous Metals Smelting Factory |
| 42. China | Tin (Sn) | Foshan Nanhai Songgang Hongyang Tin Industry Co., Ltd. |
| 43. China | Tin (Sn) | Shenzhen Anchen Tin Co.,Ltd |
| 44. China | Tin (Sn) | Dongguan Humen Shunmao Tin Co.,Ltd |
| 45. China | Tin (Sn) | Shenzhen Qianzhu New Energy Metals Co.,Ltd |
| 46. China | Tin (Sn) | Zhongshi Metal Co.,Ltd |
| 47. China | Tin (Sn) | Nankan Nanshan |
| 48. China | Tin (Sn) | Primeyoung Metal Ind.(Zhuhai) Co.,Ltd |
| 49. China | Tin (Sn) | CNMC(Guangxi) PGMA Co.Ltd |
| 50. China | Tin (Sn) | Hezhou Jinwei Tin Co.,Ltd |

| Country | Metal | Smelter Name |
|----------------|--------------|--|
| 51. China | Tin (Sn) | Zhongshan Jinye Smelting Co.,Ltd |
| 52. China | Tin (Sn) | Shanghai Sanlian Powder Smelting Co.,Ltd |
| 53. China | Tin (Sn) | Guangxi Fuchuan Smelting Factory |
| 54. China | Tin (Sn) | Guilin Lingui Huipu Non-ferrous Metals Co.,Ltd |
| 55. China | Tin (Sn) | Shangrao Xuri Smelting Factory |
| 56. China | Tungsten (W) | Xiamen Tungsten Co., Ltd |
| 57. China | Tungsten (W) | Jiangsu Dongtai Fengfeng Tungsten & Molybdenum Material Co., Ltd |
| 58. China | Tungsten (W) | Ganzhou Huaxing Tungsten Co., Ltd |
| 59. China | Tungsten (W) | Chaozhou Xianglu Tungsten Industry Co.,Ltd |
| 60. China | Tungsten (W) | Zhangyuan Tungsten Co.,Ltd |
| 61. China | Tungsten (W) | Jiangxi Xinsheng Tungsten Industry Co.,Ltd |
| 62. China | Tungsten (W) | Haisheng Tungsten & Molybdenum Material Co., Ltd |
| 63. China | Tungsten (W) | Ganzhou Sinda W&MO Co.,Ltd |
| 64. China | Tungsten (W) | Gangzhou Haichuang Tungsten Industry Co.,Ltd |
| 65. China | Tungsten (W) | Jiangxi Tungsten Co.,Ltd |
| 66. China | Tungsten (W) | Wendeng Tungsten Co.,Ltd |
| 67. China | Tungsten (W) | Jiangxi Jutong Co.,Ltd |
| 68. China | Tungsten (W) | Shaoguan Xinhai Rendan Tungsten Industry Co.,Ltd |
| 69. China | Tungsten (W) | Luoyang Kefa Non-ferrous Metals & Materials Co.,Ltd |
| 70. China | Tungsten (W) | Jiangsu Dongpu Tungsten & Molybdenum Co., Ltd |
| 71. China | Tungsten (W) | Luoyang Mudu Tungsten & Molybdenum Technology Co., Ltd |
| 72. China | Tungsten (W) | Luoyang Yongzhuo Tungsten & Molybdenum Material Co., Ltd |
| 73. China | Tungsten (W) | Luoyang Zhihang Tungsten & Molybdenum Co., Ltd |
| 74. China | Tungsten (W) | Luoyang Tongxing Tungsten & Molybdenum Co., Ltd |
| 75. China | Tungsten (W) | Dongtai Huihuang Tungsten & Molybdenum Co., Ltd |
| 76. China | Tungsten (W) | Ganzhou Non-ferrous Metals Smelting Co., Ltd. |
| 77. China | Tungsten (W) | Ganzhou Xin Yu Mine Smelting Ltd. |

| Country | Metal | Smelter Name |
|---------------------------|---------------|---|
| 78. China | Tungsten (W) | Jiujiang Tanbre's Smeltery. |
| 79. China | Tungsten (W) | Ganzhou Huahan Nonferrous Metals Metallurgical Co., Ltd |
| 80. China | Tungsten (W) | Zhuzhou Cemented Carbide Group Corp Ltd |
| 81. China | Tungsten (W) | Hunan Chun Chang Non-ferrous Smelting & Concentrating Co.,Ltd |
| 82. China | Tungsten (W) | Nanchang Cemented Carbide Limited Liability Company |
| 83. China | Tungsten (W) | Jiangsu Hetian Technological Material Co.,Ltd |
| 84. China | Tungsten (W) | China Minmetals Nonferrous Metals Co., Ltd. |
| 85. China | Tungsten (W) | Tongling Nonferrous Metals Group Holdings Co.,Ltd |
| 86. China | Tungsten (W) | Xiamen Honglu Tungsten Molybdenum Industry Co.Ltd |
| 87. China | Tungsten (W) | Hunan Non-ferrous Metals Corp., Ltd |
| 88. Czech Republic | Tin (Sn) | KOVHUTĚ PŘÍBRAM NÁSTUPNICKÁ, A.S. |
| 89. France | Tin (Sn) | PBT |
| 90. Germany | Tungsten (W) | H.C. Starck GmbH |
| 91. Germany | Tantalum (Ta) | H.C .Starck GmbH |
| 92. Estonia | Tantalum (Ta) | Molycorp Silmet |
| 93. India | Tantalum (Ta) | Metallurgical Products |
| 94. Indonesia | Tin (Sn) | CV Duta Putra Bangka |
| 95. Indonesia | Tin (Sn) | CV Justindo |
| 96. Indonesia | Tin (Sn) | CV Makmur Jaya |
| 97. Indonesia | Tin (Sn) | CV Nurjanah |
| 98. Indonesia | Tin (Sn) | CV Prima Timah Utama |
| 99. Indonesia | Tin (Sn) | CV Serumpun Sebalai |
| 100. Indonesia | Tin (Sn) | CV United Smelting |
| 101. Indonesia | Tin (Sn) | PT Alam Lestari Kencana |
| 102. Indonesia | Tin (Sn) | PT Artha Cipta Langgeng |
| 103. Indonesia | Tin (Sn) | PT Babel Inti Perkasa |
| 104. Indonesia | Tin (Sn) | PT Babel Surya Alam Lestari |
| 105. Indonesia | Tin (Sn) | PT Bangka Global Mandiri Internasional |
| 106. Indonesia | Tin (Sn) | PT Bangka Kudai Tin |

| Country | Metal | Smelter Name |
|------------------------|---------------|---|
| 107. Indonesia | Tin (Sn) | PT Bangka Putra Karya |
| 108. Indonesia | Tin (Sn) | PT Bangka Timah Utama Sejahtera |
| 109. Indonesia | Tin (Sn) | PT Belitung Industri Sejahtera |
| 110. Indonesia | Tin (Sn) | PT Billiton Makmur Lestari |
| 111. Indonesia | Tin (Sn) | PT Bukit Timah |
| 112. Indonesia | Tin (Sn) | PT Donna Kembara Jaya |
| 113. Indonesia | Tin (Sn) | PT DS Jaya Abadi |
| 114. Indonesia | Tin (Sn) | PT Eunindo Usaha Mandiri |
| 115. Indonesia | Tin (Sn) | PT Fang Di Multindo |
| 116. Indonesia | Tin (Sn) | PT HP Metals Indonesia |
| 117. Indonesia | Tin (Sn) | PT Koba Tin |
| 118. Indonesia | Tin (Sn) | PT Mitra Stania Prima |
| 119. Indonesia | Tin (Sn) | PT Refined Bangka Tin |
| 120. Indonesia | Tin (Sn) | PT Sariwiguna Binasentosa |
| 121. Indonesia | Tin (Sn) | PT Stanindo Inti Perkasa |
| 122. Indonesia | Tin (Sn) | PT Sumber Jaya Indah |
| 123. Indonesia | Tin (Sn) | PT Tambang Timah (subsidiary of PT Timah) |
| 124. Indonesia | Tin (Sn) | PT Timah |
| 125. Indonesia | Tin (Sn) | PT Timah Nusantara |
| 126. Indonesia | Tin (Sn) | PT Tinindo Inter Nusa |
| 127. Indonesia | Tin (Sn) | PT Yinchendo Mining Industry |
| 128. Japan | Tantalum (Ta) | Mitsui Mining and Smelting Co., Ltd |
| 129. Japan | Tantalum (Ta) | Global Advanced Metals Japan K.K. |
| 130. Japan | Tantalum (Ta) | H.C. Starck Ltd. |
| 131. Japan | Tantalum (Ta) | Taki Chemical Co., Ltd. |
| 132. Japan | Tin (Sn) | Mitsui Mining and Smelting Co., Ltd. |
| 133. Japan | Tin (Sn) | JX Nippon Mining & Metals Co., Ltd. |
| 134. Japan | Tin (Sn) | Mitsubishi Material Corporation |
| 135. Japan | Tin (Sn) | Kosaka Smelting & Refining Co., Ltd. |
| 136. Japan | Tungsten (W) | Japan New Metals Co., Ltd |
| 137. Japan | Tungsten (W) | A.L.M.T Corp. |
| 138. Kazakhstan | Tantalum (Ta) | ULBA Metallurgical Plant |

| Country | Metal | Smelter Name |
|-------------------|---------------|-------------------------------------|
| 139. Korea | Tin (Sn) | CHANG SUNG (Hana) |
| 140. Korea | Tin (Sn) | Poongsan Corporation |
| 141. Korea | Tin (Sn) | Hyundai-Steel |
| 142. Korea | Tin (Sn) | POSCO |
| 143. Korea | Tungsten (W) | TaeguTec Ltd. |
| 144. Malaysia | Tin (Sn) | Malaysia Smelting Corp (MSC). Bhd. |
| 145. Malaysia | Tin (Sn) | Cookson |
| 146. Malaysia | Tin (Sn) | Rahman Hydraulic Tin Sdn Bhd |
| 147. Malaysia | Tin (Sn) | Senju Metal Industry Co., Ltd. |
| 148. Peru | Tin (Sn) | Minsur / Minsur S.A. |
| 149. Peru | Tin (Sn) | Amalgamet Inc. |
| 150. Peru | Tin (Sn) | PT. Refined Bangka Tin |
| 151. Peru | Tin (Sn) | Senju Metal Industry Co., Ltd. |
| 152. Russia | Tungsten (W) | H.C. Starck GmbH |
| 153. Russia | Tungsten (W) | Wolfram Company CJSC |
| 154. Russia | Tin (Sn) | Novosibirsk |
| 155. Russia | Tin (Sn) | CSC Pure Technologies |
| 156. Russia | Tin (Sn) | Pure Technology |
| 157. Russia | Tantalum (Ta) | Solikamsk Magnesium Works |
| 158. Singapore | Tin (Sn) | Chengfeng Metals Co Pte Ltd |
| 159. Singapore | Tin (Sn) | Electroloy Metal Pte |
| 160. Singapore | Tin (Sn) | Heraeus Materials Singapore Pte Ltd |
| 161. Singapore | Tin (Sn) | Mentok Smelter |
| 162. South Africa | Tantalum (Ta) | Tantalite Resources |
| 163. Thailand | Tin (Sn) | Thailand Smelting & Refining Co Ltd |
| 164. Thailand | Tin (Sn) | Koki Products Co. Ltd. |
| 165. Thailand | Tin (Sn) | PT Bukit Timah |
| 166. Thailand | Tin (Sn) | Senju Metal Industry Co., Ltd. |
| 167. Thailand | Tin (Sn) | Thai Sarco |
| 168. Thailand | Tantalum (Ta) | H.C. Starck GmbH |
| 169. USA | Tungsten (W) | ATI Metalworking Products |
| 170. USA | Tungsten (W) | Global Tungsten & Powders Corp |

| Country | Metal | Smelter Name |
|-----------------|---------------|--------------------------------|
| 171. USA | Tungsten (W) | Buffalo Tungsten |
| 172. USA | Tungsten (W) | Global Tungsten & Powders Corp |
| 173. USA | Tungsten (W) | H.C. Starck GmbH |
| 174. USA | Tungsten (W) | Voss Metals Company, Inc |
| 175. USA | Tin (Sn) | Cookson |
| 176. USA | Tin (Sn) | EFD INC. |
| 177. USA | Tin (Sn) | Mansur |
| 178. USA | Tin (Sn) | Taboca |
| 179. USA | Tin (Sn) | Technic Inc. |
| 180. USA | Tantalum (Ta) | Global Advanced Metals |

END

This draft work was prepared by the OECD Secretariat and should not be reported as representing the official views of the OECD or of its member countries. The opinions expressed and arguments employed are those of the authors. This document and any map included herein are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

© OECD 2012