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## METALS USED IN A MOBILE PHONE

The following table gives an overview of the metals used in an average mobile phone. It should be noted that the data in this table is gathered from a number of sources available online, and not on makeITfair's own research. While it should therefore be regarded as an overview of available knowledge, makeITfair cannot guarantee that all information is fully correct, or still applicable for current-day mobile phones. This table should therefore be interpreted with caution, and regarded as an indication of the use of metals in this consumer product. More research would be needed to give a fully accurate account.

What metal?	What is it used for?	How much is in it?
Aluminium	<ul style="list-style-type: none"> <li>Covers</li> <li>Frame</li> <li>Battery</li> <li>Circuitboard</li> </ul>	3-20 %*
Antimony	<ul style="list-style-type: none"> <li>Case</li> </ul>	< 0.1%
Barium	<ul style="list-style-type: none"> <li>Circuit board</li> </ul>	<0.1%
Beryllium	<ul style="list-style-type: none"> <li>Connectors</li> </ul>	<0.1%
Cobalt	<ul style="list-style-type: none"> <li>Lithium-ion battery</li> </ul>	4%
Copper	<ul style="list-style-type: none"> <li>Circuit board</li> <li>Wires</li> <li>Connectors</li> <li>Batteries</li> </ul>	15%
Chromium**	<ul style="list-style-type: none"> <li>Case, frame</li> </ul>	<1%, more than 0,1%
Gallium	<ul style="list-style-type: none"> <li>LEDs</li> </ul>	<0.1%
Gold	<ul style="list-style-type: none"> <li>Electronic system</li> <li>Contacts</li> <li>Connectors</li> <li>Circuitboard</li> </ul>	<0.1%
Indium	<ul style="list-style-type: none"> <li>Screen</li> </ul>	
Lead	<ul style="list-style-type: none"> <li>Circuitboard</li> </ul>	<0.1%
Manganese	<ul style="list-style-type: none"> <li>Circuitboard</li> <li>Case</li> </ul>	0.1-20 %*
Nickel	<ul style="list-style-type: none"> <li>Battery</li> </ul>	10%
Palladium	<ul style="list-style-type: none"> <li>Circuit board</li> </ul>	<0.1%
Platinum	<ul style="list-style-type: none"> <li>Circuit Board</li> </ul>	<0.1%
Ruthenium	<ul style="list-style-type: none"> <li>Circuit board</li> </ul>	<0.1%
Rare Earths	<ul style="list-style-type: none"> <li>Battery</li> </ul>	<0.1%
Silver	<ul style="list-style-type: none"> <li>Circuit board</li> </ul>	<1%, more than 0,1%

	<ul style="list-style-type: none"> <li>• Keypad</li> </ul>	
Strontium	<ul style="list-style-type: none"> <li>• Circuitboard</li> </ul>	<0.1%
Sulfur	<ul style="list-style-type: none"> <li>• Circuit board</li> <li>• Battery</li> </ul>	<0.1%
Tantalum	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	<1%, more than 0,1%
Tin	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	1%
Titanium	<ul style="list-style-type: none"> <li>• Case</li> <li>• Frame</li> </ul>	<1%, more than 0,1%
Tungsten	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	<1%, more than 0,1%
Yttrium	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	<0.1%
Zinc	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	<1%, more than 0,1%
Zirconium	<ul style="list-style-type: none"> <li>• Circuit board</li> </ul>	<0.1%

\* The amount depends on whether the cover is made of aluminium

\*\* This metal is used in an alloy, meaning that it is combined with another metal

#### Sources:

- Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal, Mobile Phone Partnership Initiative, "Guideline on Material Recovery and Recycling of End-of-Life Mobile Phones" (Approved Draft). Mobile Phone Partnership Initiative Project 3.1. March 20, 2006.p. 12