

Metal alloy minerals from the podiform chromites in the Luobusa, Southern Tibet

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The metal alloy minerals from the podiform chromites in the Luobusa ophiolite, southern Tibet, include Os-Ir, Os-Ir-Ru, Pt-Fe, Si-Fe, Ir-Ni-Fe, Fe-Ni-Cr, SiC, CrC, Fe-Ni, FeCO, WCr, and nature Fe, Ni, Cr, Pb, Au, Ag, Cu, W, Si, diamond and graphite.

The alloys and nature minerals were recovered from heavy mineral separates of the chromites and are commonly included in chromite grains. They are mostly subhedral to anhedral and range in size from 0.1~0.5mm.

The alloys are believed to be core materials and xenocrysts from the mantle.