

## 2. Palladium.

Palladium, *Wollaston*.

Philosophical Transactions for 1809, p. 192.

*External Characters.*

Its colour is pale steel-grey, passing into silver-white.

It occurs in small grains.

The lustre is metallic.

The fracture is diverging fibrous.

It is opaque.

Specific gravity, 11.8, 12.148 \*, *Wollaston*.

*Chemical Characters.*

It is infusible; but on the addition of sulphur, it melts with ease; by continuance of the heat, the sulphur is dissipated, and a globule of malleable palladium remains. It forms a deep red solution with nitric acid.

*Constituent Parts.*

It consists of Palladium, alloyed with a minute portion of Platina, and of Iridium.

*Geognostic and Geographic Situations.*

It is found in grains, along with grains of native platina, in the alluvial gold districts in Brazil.

*Observations.*

This mineral was first discovered, described, and analysed by Dr Wollaston.

## 3 Iridium.

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\* The second specific gravity was communicated to me by Mr Lowry.