

4. Octahedron acuminated with eight planes, of which two and two are set on each lateral plane †.

The crystals are small and very small, and are usually superimposed.

The surface is transversely streaked, and is splendid, and the lustre is semi-metallic.

Internally it is also splendid, and the lustre is adamantine.

The fracture is foliated.

The fragments are indeterminate angular and sharp-edged.

It is strongly translucent or semitransparent, or passing to transparent.

It scratches glass.

It is brittle.

Specific gravity, 3.8571, *Haüy*.

Chemical Characters.

It is infusible before the blowpipe. When melted with borax, a reddish-brown coloured glass is formed. When this glass is brought to the extremity of the flame, the reddish-brown colour changes into blue, and becomes opaque. If the action of the blowpipe be still continued, it at length becomes white. In a higher temperature, the reddish-brown colour again appears; and according as the temperature is altered, the appearance and disappearance of the colours can be produced.

Constituent

* Anatase prominulé, *Haüy*.