

Analyses of vein
graphite from
Ceylon.

a very pure specimen of graphite, but on raising the foliæ it was found to contain, here and there, thin plates of foreign mineral matter.

Its composition was found to be as follows :—

Carbon	99.284
Ash	0.415
Volatile matter.....	0.301
	100.000

Colour of the ash, light-grey

UNITED STATES GRAPHITE—VEIN GRAPHITE.

23. *Vein Graphite, var. Foliated.*

Analyses of vein
graphite from
Ticonderoga.

From Ticonderoga, State of New York.

Structure massive, dense, lamellar. Colour dark steel-grey. Lustro metallic. Specific gravity 2.2599 (containing 2.153 per cent. ash). Heated in the closed tube gave off a little water, but not more than sufficient to form a film. The material employed for analysis was carefully selected; its composition was found to be as follows :—

Carbon.....	96.656
Ash	2.153
Volatile matter.....	1.191
	100.000

Colour of the ash, ash-grey; a portion placed upon moist turmeric paper manifested an alkaline reaction.

The foreign mineral matter contained in this graphite consisted in part of calcite; it may, therefore be inferred, considering the small amount of water indicated on heating in the closed tube, that the "volatile matter" consisted mainly of carbonic acid.

24. *Vein Graphite, var. Foliated.*

From Ticonderoga, State of New York.

Structure massive, compact, made up of narrow laminae, interlocking each other at such an angle as to present an almost columnar appearance. Colour dark steel-grey. Lustre metallic. Specific gravity 2.2647 (containing 1.760 per cent. ash.) Heated in the closed tube gave off water sufficient to form a beady deposition.

The material employed for analysis was carefully selected; its composition was found to be as follows :—