

*Remarks on the foregoing Table*—The numbers in the column preceding that of the locality, correspond with those of the analyses of the various graphites : under these will be found a description of the graphite, and, in some instances, the composition of its ash.

Of Canadian vein graphites the foliated variety possesses the greatest freedom from foreign mineral matter, and is not unfrequently of very great purity : the specimen of which 17 is an analysis may be taken in illustration of this. In selecting the material for analysis, a trifling quantity of foreign mineral matter was separated; the amount, however, was so small that even had it not been excluded, it is questionable if the percentage of ash would have been thereby raised a tenth of a per cent., and this is inferred from the fact that a specimen taken from the same piece, and without any discrimination, gave only 0.098 per cent. ash. Analysis 15 will serve to show the purity not unfrequently attainable by a simple rough hand dressing. By rejection of such portions as contained the more prominent impurities, the ash in this sample was reduced to 0.195 per cent., whilst in the yet more carefully selected portion employed for analysis, it amounted to only 0.147 per cent. The true columnar variety is rarely so pure as the foliated; its structure being generally more or less permeated by earthy impurities. The specimen of which 16 is an analysis, and which was chosen from one of many as being apparently the purest, contained, as will be seen, even after having been very carefully selected, 1.78 per cent. ash.

Of the Ceylon graphites, 19 and 21 may be said to represent the composition of fair averages of the respective samples as received; whereas in the case of 20 and 22, although still very pure specimens, some slight discrimination was exercised in the selection of the material employed for analysis.

The specimens of Ticonderoga graphite both contained a good deal of foreign mineral matter, and the material employed in those experiments, and of which 23 and 24 are analyses, was very carefully selected.