

Chrome Green.

If bichromate of potassa be fused with an equal weight of sulphur, the green sesquioxide of chromium is obtained. This is a very powerful colour but not so bright as the oxides obtained in the wet way. By treating salts of chromium with metallic oxides, carbonate or sulphides, these greens become exceedingly brilliant and vary in shade according to the re-agent used.

TITANIUM.

A very fine green was made from titanite iron-ore many years ago. In the Elsner process, which is said to have been patented in England, titanite acid, prepared by decomposing titanite iron-ore by fusion with bisulphate of potassa and by subsequent purification and separation from iron, is precipitated from its hydrochloric solution by ferrocyanide of potassium at a boiling heat, as a ferrocyanide of titanium.

In 1861, specifications for a patent were deposited in London by Mr. F. Versmann for the employment of compounds of titanium as pigments or colouring materials. The sulphuret is said to give some fine violet and blue colours and to resemble the sulphuret of tin, known as mosaic gold.

See Geology of Canada 1863, page 753.

MOLYBDENUM.

A fine blue pigment was prepared some years ago from molybdenum, since when a chemist proposed the blue of molybdenum as a substitute for indigo in dyeing silk, cotton and linen (See Geological Report 1863, page 754) but, probably owing to the high price of the mineral, which was about five dollars a pound at that time, its use was soon superseded by more fugitive but more brilliant colours (aniline). This mineral has however become more familiar in the last few years, and its distribution in Canada extends at intervals over three thousand miles of territory, and although the deposits are not generally in sufficient quantity to warrant development, there are a number of localities where they make a good showing. From one place in the township of Egan, Wright county, Quebec, I obtained thirty-nine pounds of pure mineral in one day with the aid of two men. Molybdenum is also found at numerous other places in the county of Wright. In the township of Ross, Renfrew Co., it occurs both in quartz and limestone and often presents considerable showing. It is reported from several other places in the same county, as also