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Philosophical Magazine Series 3



ISSN: 1941-5966 (Print) 1941-5974 (Online) Journal homepage: http://www.tandfonline.com/loi/tphm14

On the composition of Wolfram

M. Ebelman

To cite this article: M. Ebelman (1843) On the composition of Wolfram, Philosophical Magazine Series 3, 23:154, 477-477, DOI: <u>10.1080/14786444308644774</u>

To link to this article: http://dx.doi.org/10.1080/14786444308644774

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M. Ebelman determined the state of oxidation of the uranium in pechblende, by a modification of a process which he has described in the sixteenth volume of the *Annales des Mines*, and the results of his analyses are—

Black oxide of uranium	75.23
Sulphuret of lead	4.82
Protoxide of iron	3.10
Protoxide of manganese	0.85
Silica	3.48
Lime	5.24
Magnesia	2.07
Soda	0.25
Carbonic acid	3.35
Water	1.85
	100:18

Ann. de Ch. et de Phys., Août 1843.

ON THE COMPOSITION OF WOLFRAM. BY M. EBELMAN.

Until lately wolfram has been considered as a compound of tungstic acid with the protoxides of iron and manganese; but recently, M. Schaffgotsch (Ann. de Ch. et de Phys. ii. p. 532) has stated that it contains the oxide of tungsten and not the acid. He has deduced this from the results of his analyses, which all gave an excess of five or six hundredths when the tungsten was estimated as tungstic acid. M. Wöhler arrived at the same conclusion from the action of chlorine on wolfram.

M. Ebelman remarks, that an experiment which is easy of execution appeared to him to be sufficient to decide the question: wolfram is acted upon by hydrochloric acid when boiling, and leaves a residue which is evidently tungstic acid.

The mean of five experiments on wolfram from the environs of Limoges gave the following results:—

Tungstic acid	76.20
Protoxide of iron	
Protoxide of manganese	4.48
Magnesia	
	100.67

The mean of two experiments made upon fragments of a large crystal of wolfram from Zinnwald, gave

Tungstic acid	75.99
Protoxide of iron	9.62
Protoxide of manganese	
Lime	
	100:05

Ann. de Ch. et de Phys., Août 1843.

ON THE PRODUCTS OF THE DECOMPOSITION OF AMBER BY HEAT. BY MM. PELLETIER AND PHILIPPE WALTER.

The authors remark, that the phænomena of the distillation of amber have been observed with the greatest attention by MM. Robi-