	Heat.	Of Binary Proportions.
MAGNESIA and SILEX.		
50 magnesia 50 silex		melt with great difficulty even in the heat of pure air. Mem. Par. 1787, p. 598, into a white enamel; but in inferior heats they are infusible in all proportions by the experiments of Achard, Mem. Berl. 1780, 33, and Margr. 1778, 4, and 1 Bergm. 372.
ARGILL and SILEX.		
50 argill 50 silex	160	barely hardened, but no sign of fusion. Mr. Lavoisier found a mixture of equal parts quartz and argill vitrifiable by pure air. But this experiment is suspicious, as the quartz he used was more fusible than pure crystal, and consequently impure. In a porcelain heat Mr. Achard found them infusible in all proportions; and Bergm. 337.
IRON highly calcined and CALCAREOUS EARTH.		According to Mr. Achard's experiments, they melt at least into a porcelain mass, in every proportion, not exceeding 4 parts of the one to 1 of the other; but those mixtures, in which the calces of iron exceed the calcareous earth, are by far the most fusible.
IRON fully calcined and MAGNESIA.		
A 80 magnesia 20 calx iron		infusible, Achard, Mem. Berl. 1779, 53.
75 magnesia 25 calx of iron	155	remained a brownish black powder. Mr. Achard had the same result.
A 66 magnesia 33 calx of iron		remained a brown mass.

50 mag-