Aluminium brûle-t-il?

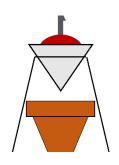
~Is Aluminium Burning?~

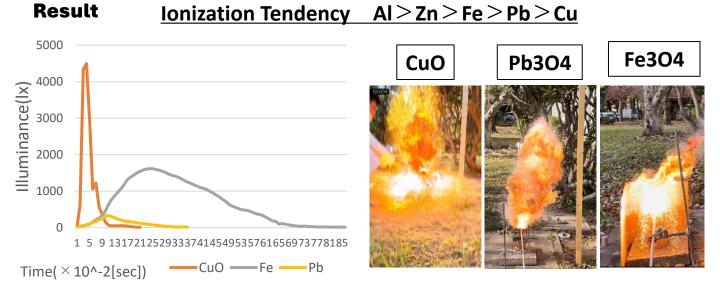
Objective

To examine the relationships between the ionization tendency of metals and the thermite reaction

Materials and Methods

1.8g of Alminum powder was mixed into metal oxide (CuO, Fe2O3, Pb2O3, ZnO, SiO2). The luminosity and the state of the reaction were observed by using LABDISK and thermo camera





With ZnO and SiO2, the reaction did not occur.

Discussion

The intensity of the reaction is associated with the difference between ionization tendency of Al and that of the metal oxide.

Prospect For The Future

To search why the reaction with CuO and Pb3O4 involved smoke.

Reference

ト部吉庸 科学の新研究改訂版 三省堂 2019年発行 JR総研(テルミット反応)

https://www.bing.com/videos/riverview/relatedvideo? &q=%e9%8a%85%e3%83%86%e3%83%ab%e3%83%9f%e3%83%83%83%88&mid=18A24C7DD344D491988F18A24C7DD344D491988F&&FORM=VRDGAR