

"Carbides Mixture in a Plasma Reactor"

L. Angelin and G. Cevales

The work is connected with research program of this Center concerning the behaviour of unusual refractory substances at high temperature.

Due to its large interest in the technological field the system TiC-TaC-WC was examined by treatment of powder mixtures in a reactor heated with a plasma jet.

The structure of the obtained products was analysed by diffractrometry with X-ray. The comparison of the results with those obtained from similar products from sinterization is particularly interesting.

The technological properties are also remarkably different.

Dr. L. Angelin
Istituto di Impianti Chimici
Università di Padova
35100 Padova
Via Marzolo, 9
Italy