

THE TEMPERATURE DEPENDENCE  
OF AN EQUILIBRIUM THERMOEMITTING  
CHARGE OF A METALLIC PARTICLE  
SURROUNDED WITH A NANODISPERSE  
CONDENSED PHASE

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S u m m a r y

The photos, which are done by an electron microscope, of the condensed disperse phase surrounding a high-temperature metal particle are presented. The dependence of the concentration of the condensed dispersive phase (CDP) which surrounds a high-temperature metal particle upon the temperature of the particle is obtained. The dependence of the concentration of electrons in CDP on the temperature of a particle is obtained. The condition of charge equilibrium of a metal particle with CDP surrounding it is obtained. The dependence of the equilibrium charge of a metal particle surrounded with CDP on the temperature of a particle in the positive and negative regions is obtained. The obtained results may be used in researches of the processes of burning of metallized fuels and in studies of dust plasma.