

The invention relates to area of physical methods for material study, in particular to method of calorimetric analysis of organic material, and can be used in foundry, metallurgical, chemical industry, Method for calorimetric analysis of organic material according to which one determines temperatures of phase transitions of organic material at its heating with fixation by means of hot junction of thermocouple with simultaneous registration of temperature changes with thermo-measuring device. At that study of phase transitions of organic material is performed through immersing to melt of alloy hot junction of thermo couple, this is placed in quartz cup with organic material under investigation, not protected hot junction of additional second thermo-couple to that melt, hot junction of additional third thermo-couple that is placed in quartz cup with inert substance in that melt as well, hot junction of additional fourth thermo-couple that is placed in empty quartz cup and that melt of alloy – medium that transfers heat, at that one simultaneously registers and writes temperature changes fixed by all the thermo-couples connected to thermo-measuring device in which by means of software temperature data obtained are compared to each other and to reference values for those with obtaining values of temperatures of phase transitions of organic material. The invention provides reveal of boundary values of temperatures of phase transitions of organic material and products of its thermo-destruction on surface of liquid alloy with high accuracy, this makes possible to predict amount of liquid phase of products of thermo-destruction of polymer foundry model on surface of front of alloy in mould and to increase quality of ingot obtained.