STRUCTURE AND PROPERTIES OF KX-$ZnSO_4$ (X=F, Cl) GLASSES

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The aim of the present work was to determine the glass forming regions for binary systems KX-ZnSO4 (KX =F, Cl). It was interesting to investigate structure and physicochemical properties some glasses in the above mentioned systems too. The raw materials used for present study were high purity anhydrous ZnSO4 and KFHF. Regions of glass formation were determined at two cooling rates of the melt, namely, 10 K/s and 103 K/s. Concentration dependencies of glass transition tem-perature, density, surface tension and thermal expansion for KX-ZnSO4 glasses have been studied, too. The structure of the glasses was investigated by NMR and IR-spectroscopy.