
RICE HUSK IMPACT ON THE PHASE FORMATION AND CEMENT CLINKER PROPERTIES

Lev Chernyak*, Liubov Melnyk, Natalia Dorogan

*National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", 37, Peremohy ave., Kyiv 03056, Ukraine
e-mail: lpchernyak@ukr.net; phone: +38 067 298 57 75

Abstract. The features of the cement clinker when rice husk is used are shown. The dependence of the raw mixture composition on the set product roasting characteristics has been analysed with the help of the software application "CLINKER". The mixture compositions have been identified on the basis of the chalk – clay – husk system, with the introduction of man-made stock 6.0–18.0 mass %. The features of the phase composition and the binder properties, with variable husk content, quantitative ratio of the end mix components and roasting temperature are shown.

Keywords: cement clinker, rice husk, mixture raw material, phases crystalline, properties.