ABSTRACT

Cement used in construction is one of the most common building materials. In addition, it
used in the production
of concrete as binder. In this study, radiation absorption coefficient (μ cm
-1) was
measured for cement pastes
produced different types of cement. Measurements were carried out by gamma
spectrometry containing NaI (TI)
detector and Multichannel Analyzer (MCA). In the production of cement pastes CEM
IV /
B (P) 32,5 N, CEM I
42,5 R type cement and CEN reference sand were used. Experimental results obtained
for the cement pastes
were compared with the calculated values by XCom program.

Keywords: Cement paste, radiation, gamma spectrometry, Xcom