In this study, the radiation shielding properties of borided Fe-Ni binary alloys (Ni–60 wt.% and Ni-80 wt.%) have been investigated. For this purpose, linear attenuation coefficients at photon energy levels of 662 keV, 1173 keV and 1332 keV have been measured. The results showed that this alloy can be considered as an ideal material for radiation shielding against gamma radiation.