

Surface of Soft Magnetic Fe_{83.3}Si₄B₁₂Cu_{0.7} Alloy in As-Quenched State

Milan Pavúk^{1, a)}, Marcel Miglierini^{1, 2, b)} and Stanislav Sojak^{1, c)}

¹*Institute of Nuclear and Physical Engineering, Slovak University of Technology in Bratislava, Ilkovičova 3, 812 19 Bratislava, Slovak Republic*

²*Department of Nuclear Reactors, Czech Technical University, V Holešovičkách 2, 180 00 Prague, Czech Republic*

^{a)} Corresponding author: milan.pavuk@stuba.sk

^{b)} marcel.miglierini@stuba.sk

^{c)} stanislav.sojak@stuba.sk

Abstract. The as-quenched Fe_{83.3}Si₄B₁₂Cu_{0.7} ribbon was examined from both sides by Atomic Force Microscopy. The focus was on small changes in topography. Numerous nanoscale depressions were formed on the ribbon side that was not in contact with the cooling wheel during production. The depressions were ~45 nm apart. In the Atomic Force Microscopy image, they created a kind of speckled pattern. Such a pattern was not observed on the opposite side of the ribbon.