

MAGNETIC PROPERTIES OF FINE PARTICLES OF COPPER-BASED ALLOYS

*K.V. Chuistov, A.E. Perekos, T.V. Efimova,
T.V. Ruzhitskaya, I.V. Zolotarevskiy*¹

G.V. Kurdyumov Institute for Metal Physics,
Nat. Acad. Sci. of Ukraine
(36, Academician Vernadsky Blvd.,
Kyiv 03142, Ukraine),

¹Zaporizhzhya State University
(66, Zhukovsky Str., Zaporizhzhya 69063, Ukraine)

S u m m a r y

Evolution of structure and magnetic properties of fine particles of Cu–Ni–Fe and Cu–Ni–Co alloys in the process of isothermal annealing have been investigated using the methods of X-ray structure analysis and magnetic measurements. Peculiarities of magnetic properties have been specified, which are governed by phase and chemical composition of particles, their diminutive size, and the presence of concentration inhomogeneities.