

MAGNETIC FIELD
INFLUENCE ON THE INTERMARTENSITIC
TRANSFORMATION IN THE FERROMAGNETIC
SHAPE-MEMORY ALLOY Ni—Mn—Ga

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S u m m a r y

Influence of a magnetic field on the intermartensitic transformation in the Ni—Mn—Ga alloy is studied by measuring the electroresistance and the low-field magnetic susceptibility of the alloy. The effect of an abnormally large displacement of the start temperature M'_s of the intermartensitic transformation in a magnetic field with respect to the main transition temperature has been described. The displacement of the start temperature of the main intermartensitic transformation was observed to be at most 1 K in a magnetic field $H = 10$ kOe, whereas the increment of M'_s was $\Delta T = (7 \pm 1)$ K. At the same time, no displacement of the start temperature of the inverse (at heating) intermartensitic transformation was observed. The growth of the magnetic field resulted in a narrowing of the temperature hysteresis of the intermartensitic transformation.