

SOFT MAGNETIC ALLOY FOR MAGNETIC RECORDING PURPOSES, SPUTTERING
TARGET MATERIAL, AND MAGNETIC RECORDING MEDIUM

ABSTRACT

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Provided is a soft magnetic alloy, for magnetic recording, having an atomic ratio
100Fe/(Fe+Co) of 0 to 70 and comprising, in at.%, (A) at least one element selected from
the group consisting of Mo and W in an amount of 10% to 30%; (B) at least one element
selected from the group consisting of Ti, Zr, and Hf in an amount of 0% to 5%; (C) at least
10 one element selected from the group consisting of V, Nb, and Ta in an amount of 0% to
0.5%; (D) at least one element selected from the group consisting of Ni and Mn in an
amount of 0% to 30%; (E) at least one element selected from the group consisting of Cr,
Al, and Cu in an amount of 0% to 10%; and (F) at least one element selected from the
group consisting of Si, Ge, P, B, and C in an amount of 0% to 10%, the balance being Co
15 and incidental impurities. This soft magnetic alloy for magnetic recording has high
thermal shock resistance.