

FE-CO ALLOY SPUTTERING TARGET MATERIAL FOR
FORMING SOFT MAGNETIC FILM

ABSTRACT

Disclosed is an Fe-Co based alloy sputtering target material for forming a soft magnetic film which is used for a perpendicular magnetic recording medium or the like. The sputtering target material has an Fe-Co based alloy composition, and achieves amorphousization and improvement in corrosion resistance by addition of a single element as much as possible. The Fe-Co based alloy sputtering target material for forming a soft magnetic film is obtained by adding 10-20% by atom of one or two elements selected from Ta and Nb into an Fe-Co alloy having an atomic ratio composition represented by the following formula: $\text{Fe}_X\text{-Co}_{100-X}$, wherein $10 \leq X \leq 80$.