

ABSTRACT

Provided is a Fe-Co-based alloy sputtering target material having a composition represented as an atomic ratio by the compositional formula: $(\text{Fe}_a\text{-Co}_{100-a})_{100-b-c-d}\text{-Ta}_b\text{-Nb}_c\text{-M}_d$, wherein $0 < a \leq 80$, $0 \leq b \leq 10$, $0 \leq c \leq 15$, $5 \leq b + c \leq 15$, $2 \leq d \leq 20$, $15 \leq b + c + d \leq 25$, and M represents one or more elements selected from the group consisting of Mo, Cr and W, with the balance consisting of unavoidable impurities, wherein the sputtering target material has a bending fracture strain ε_{FB} at 300°C of 0.4% or more.