

MAGNETIC RECORDING MEDIUM AND PROCESS FOR PRODUCING
THE SAME

ABSTRACT OF THE DISCLOSURE

A process for producing a magnetic recording medium, comprises: forming an underlayer on a substrate; subjecting the underlayer to sputtering treatment in an oxygen-rich atmosphere using a Fe target, a Fe alloy target or a target comprising iron oxide as a main component; conducting a reactive sputtering using an Fe target, an Fe alloy target or a sputtering using a target comprising iron oxide as a main component to form a spinel-type iron oxide thin film comprising magnetite as a main component on the underlayer; and oxidizing the spinel-type iron oxide thin film comprising magnetite as a main component to transform into a spinel-type iron oxide thin film comprising maghemite as a main component.

The magnetic recording medium exhibits a high coercive force and an excellent squareness.



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