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Abstract

Glass-ceramic Substrate for a Magnetic Information Recording Medium

A glass-ceramic substrate for a magnetic information recording medium contains, as a main crystal phase or phases, one or more crystal phases selected from the group consisting of β-quartz (β-SiO_2), β-quartz solid solution (β-SiO_2 solid solution), β-spodumene (β-$Li_2O \cdot Al_2O_3 \cdot SiO_2$), β-spodumene solid solution (β-$Li_2O \cdot Al_2O_3 \cdot SiO_2$ solid solution), β-eucryptite (β-$Li_2O \cdot Al_2O_3 \cdot 2SiO_2$, a part of Li_2O being capable of being substituted by MgO and/or ZnO) and β-eucryptite solid solution (β-$Li_2O \cdot Al_2O_3 \cdot 2SiO_2$ solid solution, a part of Li_2O being capable of being substututed by MgO and/or ZnO). Alternatively, the glass-ceramic contains , as a main crystal phase or phases, gahnite ($ZnAl_2O_39$ and/or gahnite solid solution ($ZnAl_2O_3$ solid solution). The glass-ceramic substrate has a high heat resisting property and a super flat surface capable of achieving a high recording density according to the perpendicular magnetic recording.

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