

Abstract Submitted
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C-Axis Properties of DyNi₂B₂C System W.C. LEE, Dept. of Physics, Sookmyung Women's Univ. Seoul 140-742, Korea — We have measured the electrical resistivity along *c*-axis $\rho_c(T, H)$ of the DyNi₂B₂C single crystal with the magnetic fields perpendicular to the *c*-axis and the magnetization isotherms $M(H)$ of the DyNi₂B₂C single crystal with magnetic fields perpendicular and parallel to the *c*-axis. We confirmed that Neel temperature T_N is 10.3K from the $\rho_c(T)$ result which is consistent with that from previous $\rho_{ab}(T)$ result. In addition, the constructed critical fields $H_{c2}(T)$ curve and magnetic transitions diagram of DyNi₂B₂C from $\rho_c(T)$ magnetic fields perpendicular to *c*-axis is similar to that of $\rho_{ab}(T)$ result, which is thought to arise that 3 D magnetic structure of DyNi₂B₂C.

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