

superconducting transition

A transition at the critical temperature, T_c , below which the resistance of electrical conductors becomes zero and magnetic flux is excluded. Examples: The transitions of Nb_3Sn , Nb_3Al and V_3Si to superconductors ($15\text{ K} < T_c < 20\text{ K}$) and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ($x \approx 0.2$) at 90 K.

Source:

PAC, 1994, 66, 577 (*Definitions of terms relating to phase transitions of the solid state (IUPAC Recommendations 1994)*) on page 592