No Ohmic resistance: No leakage (perfect linkage):

Induced voltage in secondary: If secondary is open ,

Neglecting ,

Ideal Xformer: R = 0, No Hysteresis Losses, No Leakage, No eddy current losses (infinite resistivity for core material)

RC = Core losses (Ideal value = infinite Ω) RP = excitation/iron losses (Ideal value = 0 Ω)

