The ErCo2 compound belong to a group of RECo2 compounds (R – rare earth) crystallizing in the cubic Laves phase C15. The inuence of substitution of p–element (3% of Al, Si, Ga, Ge, In in Co) on magnetic, transport and magnetoelastic properties was studied in this work. All substitutions shifts transition temperature to higher temperatures (from 43 K in the case of Ga to 52 K in the case of In). The In substitution shows the most dierent behavior in comparison to the data of pure ErCo2 compound — transition temperature shifted from 33 K to 52 K, phase transition is of the second order contrary to pure ErCo2 and no metamagnetic transition above TC was observed.