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## Influence of structural changes of $\text{Co}_{78}\text{Si}_9\text{B}_{13}$ metallic glass on magnetic properties

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### Keywords

metallic glass, crystallization, coercivity

### Abstract

The primary crystallization of  $\text{Co}_{78}\text{Si}_9\text{B}_{13}$  metallic glass starts at 648 K and as a consequence of this the  $\epsilon\text{-Co}(\text{Si})$  phase with needle morphology is created. The second stage of crystallization (at 773 K) is the eutectic and as a result of this  $\alpha\text{-Co}(\text{Si})$  and boron phases:  $(\text{Co},\text{Si})_3\text{B}$ ,  $(\text{Co},\text{Si})_2\text{B}$  are formed. The crystallites of these phases have layer morphology. These characteristic morphologies in the first and second stages lead to the increase in coercivity.



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