

## B9

비정질 Invar Fe<sub>90</sub>Zr<sub>10</sub>

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Amorphous Invar Fe<sub>90</sub> Zr<sub>10</sub>

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Invar is a long standing problem in magnetism and remains the subject of active research. Although it is thought to be a characteristic of an itinerant system, the basic mechanism is still not known. Since most works so far have been done on crystalline systems, we have carried out the investigations on an amorphous invar, Fe<sub>90</sub>Zr<sub>10</sub>, to shed new light on the invar problem and itinerant magnetism. We shall report on the measurements of the thermal and elastic properties of a-Fe<sub>90</sub>Zr<sub>10</sub>. [1] These results will be critically compared with those of the crystalline invars.

[1] S. H. Park, Y. H. Jeong, K. Nahm, C. K. Kim, "Magnetic softening of Young's modulus of a-Fe<sub>90</sub>Zr<sub>10</sub>", Solid State Comm. In press.

[2] Y. H. Jeong, S. H. Park, K. Nahm, C. K. Kim, "Specific heat of an amorphous invar Fe<sub>90</sub>Zr<sub>10</sub>", Physics Letters A submitted.