metals

MDPI

Article

Magnetostructural Transformation and Magnetocaloric Properties of $(Ni_{37.5}Co_{12.5}Mn_{35}Ti_{15})_{100-x}B_x$ (x = 0.0 and 0.4) Melt-Spun Ribbons

Mauricio López-Cruz [1,*], Rastislav Varga [2] and José Luis Sánchez Llamazares [1,*]

[1] Instituto Potosino de Investigación Científica y Tecnológica A.C., Camino a la Presa San José 2055, Col. Lomas 4ª, San Luis Potosí 78216, Mexico
[2] Centre for Progressive Materials, Technology, and Innovation Park, Pavol Jozef Safarik University in Kosice, 041 01 Kosice, Slovakia; rastislav.varga@upjs.sk
* Correspondence: mauricio.lopez@ipicyt.edu.mx (M.L.-C.); jose.sanchez@ipicyt.edu.mx (J.L.S.L.)

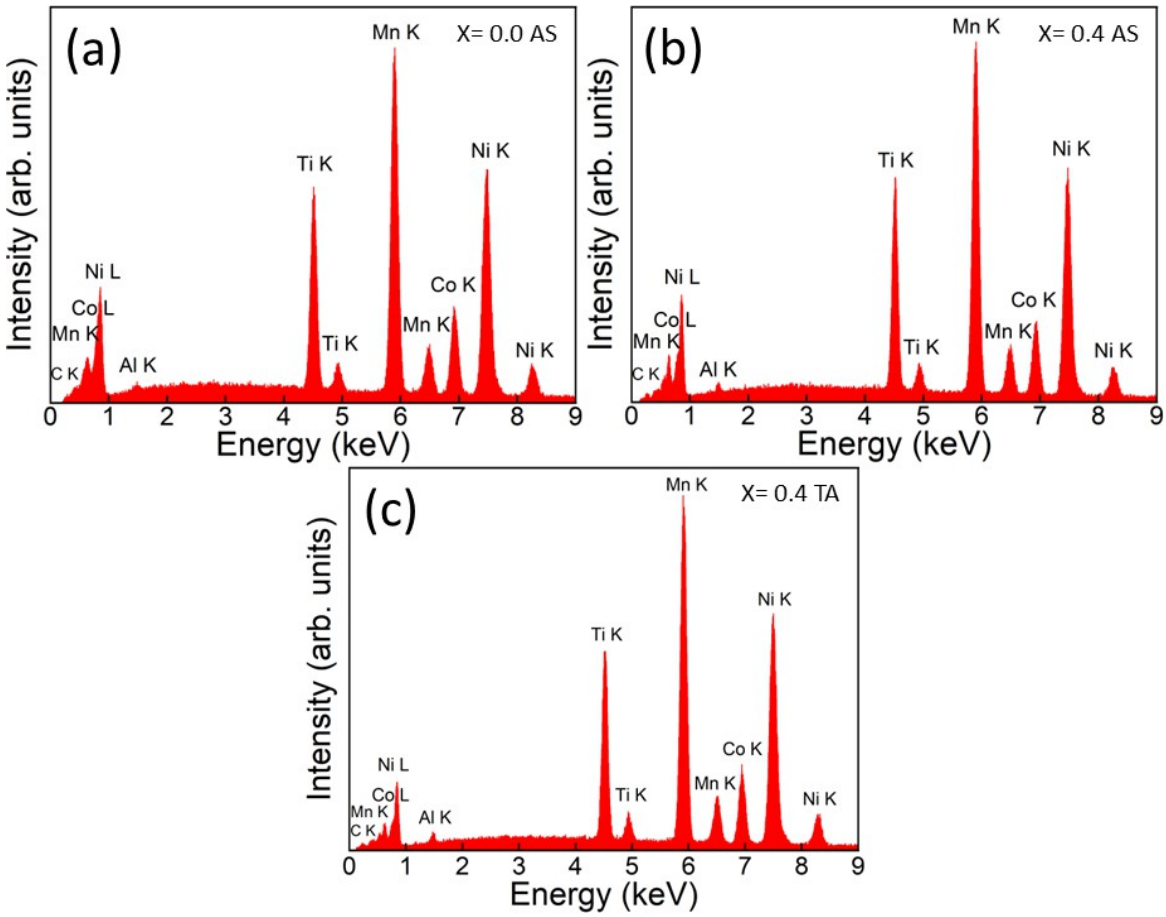


Figure S1. Typical EDS spectra obtained for as-solidified $(Ni_{37.5}Co_{12.5}Mn_{35}Ti_{15})_{100-x}B_x$ melt-spun ribbons with x = 0.0 AS (**a**), x = 0.4 AS (**b**) and x = 0.4 TA (**c**).

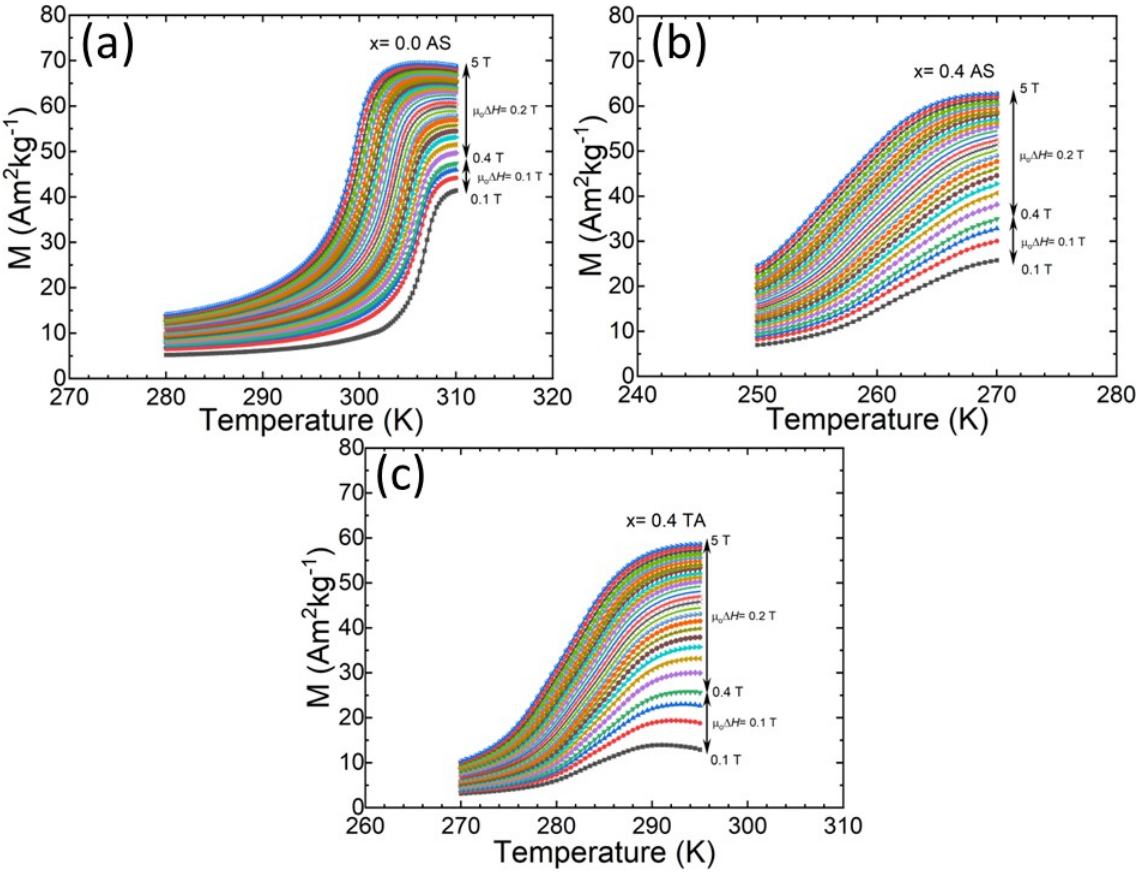


Figure S2. Set of isofield $M(T)$ curves measured for heating $(Ni_{37.5}Co_{12.5}Mn_{35}Ti_{15})_{100-x}B_x$ ribbon samples: x = 0.0 AS (**a**), x = 0.4 AS (**b**), and x = 0.4 TA (**c**) ($0.05\ T \leq \mu_0 H \leq 2\ T$).

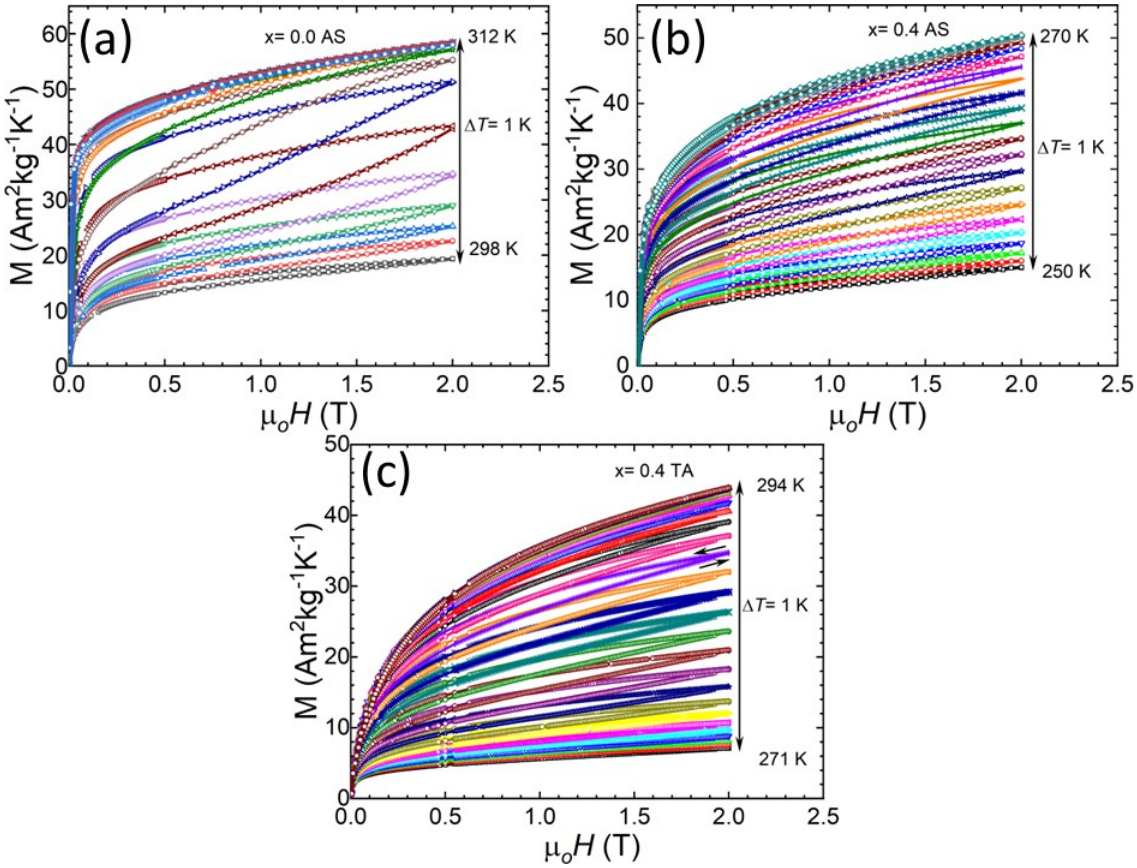


Figure S3. Set of isothermal $M(\mu_0 H)$ curves measured for increasing and removing the magnetic field through the MST-to-AST phase transition for $(Ni_{37.5}Co_{12.5}Mn_{35}Ti_{15})_{100-x}B_x$ ribbon samples: as-solidified (**a**) x = 0.0 (AS), x = 0.4 (AS) (**b**), and x = 0.4 (TA) (**c**). They were used to determine the thermal dependence of the magnetic hysteresis loss for each sample.