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Microstructures

Supplementary Materials

Effect of ausforming on isothermal transformation below the martensite start temperature in NiCrMoV steel: an in-situ neutron diffraction study

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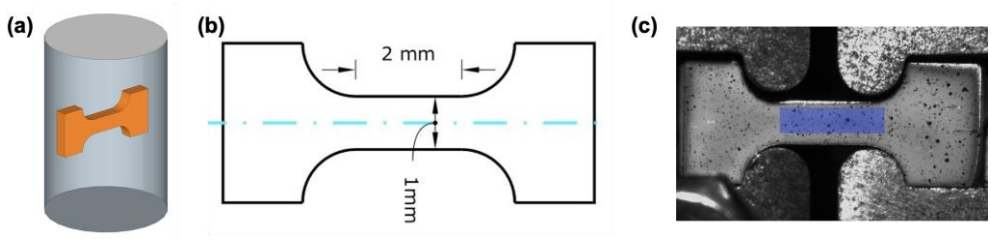
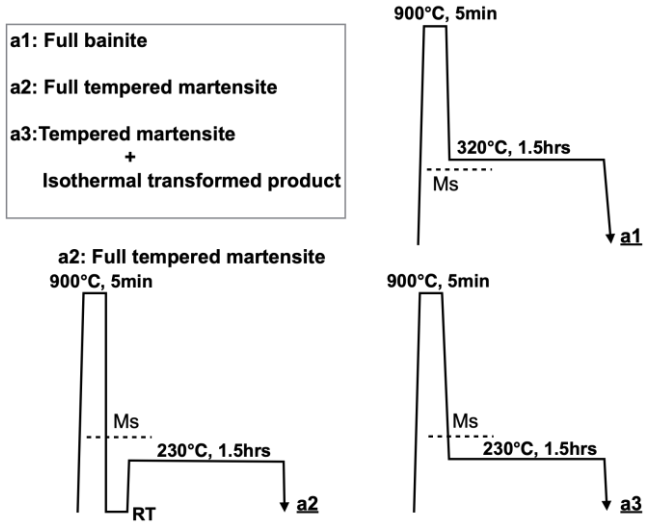
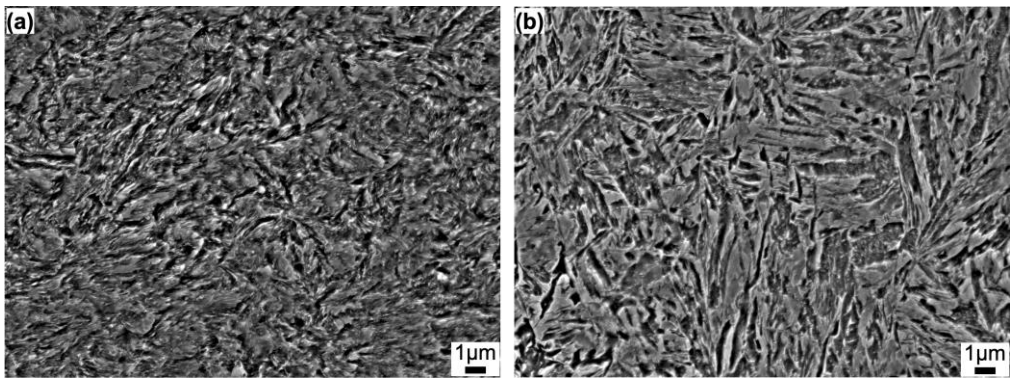


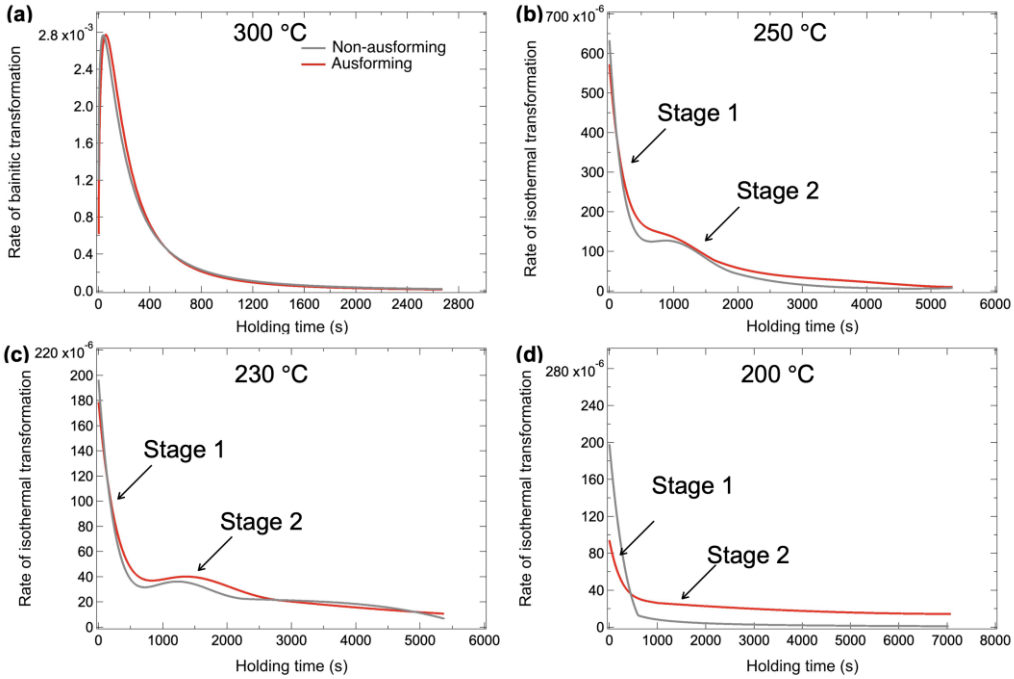
Supplementary Figure 1. (a) Schematic illustration of tensile specimen cutting from the cylindrical specimen. (b) Specimen dimensions of the micro-tensile specimen. (c) Image of the tensioned specimen for digital image correlation (DIC) analysis.



Supplementary Figure 2. Schematic illustration of heat treatment processes for producing fully bainite, tempered martensite, and mixed microstructures containing tempered martensite and isothermal transformation products.



Supplementary Figure 3. SEM images of the specimens subjected to the AIH process isothermally held at (a) 250 °C and (b) 230 °C.



Supplementary Figure 4. Rate of isothermal transformation in the AIH and DIH processes as a function of holding time at isothermal holding temperatures of (a) 300 °C, (b) 250 °C, (c) 230 °C, and (d) 200 °C.