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EFFET DE LAMINAGE A CHAUD SURLE COMPORTEMENT DE LARECRYSTALLISATION DE L'ACIERINOXYDABLE FERRITIQUE TYPE 409

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Abstract: The behavior of the static recrystallization of this ferritic stainless steel type 409 which contains precipitateswas examined using hot rolling test of a single pass. Hot rolling tests were carried out at temperature of 870°C from athickness of 15mm to 8,4mm and 4,7mm thickness at a controled strain rate of 3.3s-1. The recrystallized volume increases with the increase of the reduction and the holding time after hot rolling. Nucleation of recrystallising grainsappears to be associated with triple points and grain boundaries. This material displays a slower rate of recrystallisationand this is attributed to the presence of titanium

Keywords : ferritic stainless steel type 409, precipitates, deformation variables, hot rolling, dynamic recovery, static recovery, static recrystallization