

THE IMPROVEMENT OF REFRACTARITY OF CHROMIUM STAINLESS STEEL BY THERMOMECHANICAL HEAT TREATMENT

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Abstract: *The goal of this paper is to study the possibilities of upgrading the 10Cr130 steel performance by applying the thermomechanical heat treatment of martensite. The experimental test on samples has proved that general strength and stability increased after the thermomechanical deformation. The paper presents the evolution of strength and plasticity values and the optical and electronic microstructures of different heat-treated samples which explain this behaviour.*

Key words: *stainless steel, thermo-mechanical heat treatment.*