

Title (en)

METHOD FOR PRODUCING THIN SHEET FROM A STAINLESS AUSTENITIC CRMNNI STEEL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FEINBLECH AUS EINEM NICHTROSTENDEN, AUSTENITISCHEN CRMNNI-STAHLE

Title (fr)

PROCÉDÉ DE PRODUCTION DE TÔLES MINCES EN ACIER CRMNNI INOXYDABLE AUSTÉNITIQUE

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Application

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Abstract (en)

[origin: WO2016177473A1] The invention relates to a method for producing sheets and strips, in particular fine sheet, from stainless austenitic CrMnNi steel having the following composition: Mn: 7.6 to 8.7 wt%; Cr: 16.5 to 16.99 wt%; Ni: 3.8 to 4.3 wt%; Mo: 0.51 to 1.0 wt%; N: 0.18 to 0.45 wt%; C: <0.04 wt%; Si: <0.5 wt%; P: < 0.04 wt%; S: < 0.01 wt%; the rest iron and unavoidable impurities, the method comprising the steps of: melting the steel by a conventional smelting method, casting the steel melt as an extrusion or an ingot, hot rolling the extrusion or the ingot into a slab, further processing of the slab to a preliminary strip and then to a hot strip, scaling and annealing the hot strip, and cold rolling to a cold strip, wherein the steel in the solution-annealed state contains δ -ferrite components < 3 vol% and in the cold-rolled state the steel additionally contains a α' -martensite component of up to 50 vol%.

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