

Title (en)

METHOD FOR THE PRODUCTION OF HOT STRIP OR SHEET FROM A MICRO-ALLOYED STEEL

Title (de)

VERFAHREN ZUM HERSTELLEN VON WARMBAND ODER -BLECH AUS EINEM MIKROLEGIERTEN STAHL

Title (fr)

PROCEDE DE PRODUCTION DE FEUILLARDS OU DE TOLES A CHAUD EN ACIER MICROALLIE

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Application

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Abstract (en)

[origin: US2004040633A1] The invention relates to a method for producing hot strip or hot plate, in which a microalloyed steel, which, apart from microalloying elements, comprises (in weight %) C: 0.05-0.12%; Si:0.2-0.5%; Mn:1.5-2.2 %; Al:0.02-0.05%; P:<=0.025%; S:<=0.01%; with the remainder being iron and unavoidable impurities, is cast to form a raw material such as slabs, blooms or thin slabs; in which the raw material is heated to a temperature of 1300-1350° C.; in which the heated raw material is rough rolled at a degree of deformation of 36% to 43%; in which the rough rolled raw material is thermomechanically hot rolled at a final rolling temperature which exceeds the Ac3 temperature so as to form a hot strip; in which the hot strip is cooled at a cooling rate of at least 15° C./s to a coiling temperature of at least 590° C. and at most 630° C. at which temperature the cooled hot strip is finally coiled. With such a method, hot strip which is of particularly high strength even at larger thicknesses can be produced economically.

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