

Title (en)
STEEL SHEET AND METHOD TO MANUFACTURE IT

Title (de)
STAHLFLACHPRODUKT UND VERFAHREN ZUR HERSTELLUNG EINES STAHLFLACHPRODUKTS

Title (fr)
TÔLE D'ACIER ET MÉTHODE POUR SON OBTENTION

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Abstract (en)
[origin: WO2013182621A1] The invention relates to a steel and a sheet steel product produced therefrom, which have optimized mechanical properties and can be produced inexpensively without recourse having to be made to expensive alloying elements which are subject to great fluctuations in respect of their procurement costs. The steel and the sheet steel product have, according to the invention, the following composition (in % by weight): C: 0.12 - 0.18%; Si: 0.05 - 0.2%; Mn: 1.9 - 2.2%; Al: 0.2 - 0.5%; Cr: 0.05 - 0.2%; Nb: 0.01 - 0.06%; balance Fe and production-related unavoidable impurities including contents of phosphorus, sulphur, nitrogen, molybdenum, boron, titanium, nickel and copper, with the proviso that their contents are in each case: P: <= 0.02%, S: <= 0.003%, N: <= 0.008%, Mo: <= 0.1%, B: <= 0.0007%, Ti: <= 0.01%, Ni: <= 0.1%, Cu: <= 0.1%. The invention likewise relates to a process for producing a sheet steel product which consists of a steel according to the invention.

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