

Title (en)
STAINLESS STEEL HAVING LOCAL VARIATIONS IN MECHANICAL RESISTANCE

Title (de)
EDELSTAHL MIT LOKALEN VARIATIONEN DER MECHANISCHEN BESTÄNDIGKEIT

Title (fr)
ACIER INOXYDABLE À VARIATIONS LOCALES DE RÉSISTANCE MÉCANIQUE

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Application
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Abstract (en)
[origin: WO2011033180A1] The invention mainly relates to a stainless steel sheet containing a minimum of 10.5 wt % of Cr and a maximum of 1.2 wt % of C, the microstructure of which is martensitic or austeno-martensitic and contains at least 2 vol % of martensite, essentially characterized in that it includes at least one local portion having reduced mechanical resistance and a martensite content of at least 10% less than of that of the rest of said sheet, wherein said local portion at least partially has a thickness equal to that of said sheet. The invention also relates to a method for manufacturing said steel sheet and to a steel part that can be produced by deforming said sheet.

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