

Title (en)
THICK STEEL SHEET AND WELDED JOINT

Title (de)
DICKES STAHLBLECH UND SCHWEISSVERBINDUNG

Title (fr)
TÔLE D'ACIER ÉPAISSE ET JOINT SOUDÉ

Publication
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Application
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Abstract (en)
[origin: EP3299486A1] The purpose of the present invention is to provide a thick steel sheet having excellent sour resistance. The present invention is a thick steel sheet which contains, in mass%, 0.01-0.12% of C, 0.02-0.50% of Si, 0.6-2.0% of Mn, more than 0% but 0.030% or less of P, more than 0% but 0.004% or less of S, 0.010-0.080% of Al, 0.10-1.50% of Cr, 0.002-0.050% of Nb, 0.0002-0.05% of REM, 0.0003-0.01% of Zr, 0.0003-0.006% of Ca, more than 0% but 0.010% or less of N, and more than 0% but 0.0040% or less of O, with the balance made up of iron and unavoidable impurities. With respect to the composition of the inclusions contained in the steel and having widths of 1 µm or more, the Zr amount in the inclusions is within 1-40%, the REM amount in the inclusions is within 5-50%, the Al amount in the inclusions is within 3-30% and the Ca amount in the inclusions is within 5-60%.

IPC 8 full level
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