

Title (en)
HOT-ROLLED STEEL SHEET HAVING EXCELLENT COMPOSITE CORROSION RESISTANCE TO SULFURIC ACID AND HYDROCHLORIC ACID AND MANUFACTURING METHOD THEREFOR

Title (de)
WARMGEWALZTES STAHLBLECH MIT HERVORRAGENDER ZUSAMMENGESETZTER KORROSIONSBESTÄNDIGKEIT GEGEN SCHWEFELSÄURE UND SALZSÄURE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER LAMINÉE À CHAUD AYANT UNE EXCELLENTE RÉSISTANCE COMBINÉE À LA CORROSION PAR L'ACIDE SULFURIQUE ET L'ACIDE CHLORHYDRIQUE ET SON PROCÉDÉ DE FABRICATION

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Application
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Abstract (en)
[origin: EP3305936A1] Disclosed are: a hot-rolled steel sheet having excellent composite resistance to sulfuric acid and hydrochloric acid; and a manufacturing method therefor. An aspect of the present invention provides a hot-rolled steel sheet having excellent composite corrosion resistance to sulfuric acid and hydrochloric acid, the hot-rolled steel sheet containing, by weight%, 0.05-0.1% of C, 0.5-1.5% of Mn, 0.02% or less of P, 0.02% or less of S, 0.01-0.1% of Al, 0.2-0.6% of Cu, 0.05-0.1% of Sb, the remainder Fe, and inevitable impurities, wherein Cu and Sb are enriched within 500 nm from the surface in the thickness direction, and the mass loss to a solution of 16.9 vol% of sulfuric acid + 0.35 vol% of hydrochloric acid is 2.0 mg/cm²/hr.

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Citation (search report)

- [A] KR 20150029468 A 20150318 - POSCO [KR]
- [A] US 2007269335 A1 20071122 - USAMI AKIRA [JP], et al
- [A] KR 20140084629 A 20140707 - POSCO [KR]
- See references of WO 2016190467A1

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