

Title (en)
STEEL PLATE FOR PIPE LINE, HAVING EXCELLENT HYDROGEN INDUCED CRACK RESISTANCE, AND PREPARATION METHOD THEREOF

Title (de)
STAHLPLATTE FÜR EINE ROHRLEITUNG MIT HERVORRAGENDER BESTÄNDIGKEIT GEGEN DURCH WASSERSTOFF HERBEIGEFÜHRTE RISSE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
TÔLE D'ACIER POUR TUBE DE CANALISATION, PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À LA FISSURATION SOUS HYDROGÈNE, ET SON PROCÉDÉ DE PRÉPARATION

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Abstract (en)
Disclosed are a steel plate for a line pipe having excellent hydrogen induced crack resistance with a tensile strength of 450 MPa or more, and a preparation method thereof. According to the present invention, the steel plate for a line pipe, having excellent hydrogen induced crack resistance comprises: 0.03#1/40.05 wt% of carbon (C); 0.2-0.3 wt% of silicon (Si); 0.5-1.3 wt% of manganese (Mn); 0.010 wt% or less of phosphorus (P); 0.005 wt% or less of sulfur (S); 0.02-0.05 wt% of aluminum (Al); 0.2-0.5 wt% of nickel (Ni); 0.2-0.3 wt% of chromium (Cr); 0.03-0.05 wt% of niobium (Nb); 0.02-0.05 wt% of vanadium (V); 0.01-0.02 wt% of titanium (Ti); 0.001-0.004 wt% of calcium (Ca); and a balance of iron (Fe) and inevitable impurities, and has a tensile strength of 450 MPa or more.

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