

Title (en)

WIRE ROD AND PARTS WITH IMPROVED DELAYED FRACTURE RESISTANCE, AND METHODS FOR MANUFACTURING SAME

Title (de)

WALZDRAHT UND TEILE MIT VERBESSERTER BESTÄNDIGKEIT GEGEN VERZÖGERTE FRAKTUR UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

FIL MACHINE ET PIÈCES AYANT UNE RÉSISTANCE À LA RUPTURE DIFFÉRÉE AMÉLIORÉE, ET LEURS PROCÉDÉS DE FABRICATION

Publication

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Application

EP 21907056 A 20211214

Priority

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Abstract (en)

Disclosed are wire rods and parts with improved delayed fracture resistance, and methods for manufacturing the same. The wire rod with improved delayed fracture resistance according to the present disclosure contains, by wt%, 0.15-0.30% of C, 0.15-0.25% of Si, 0.95-1.35% of Mn, 0.030% or less of P, 0.030% or less of S, 0.015-0.030% of Ti, 0.0010-0.0040% of B, 0.0010-0.0080% of N, and Fe and inevitable impurities as the balance, and satisfies formula 1. $2.0 \leq 5.5 \times \text{Si} + \text{Mn} \leq 2.4$ (In formula 1, [Si] and [Mn] represent the contents (wt%) of the corresponding elements.)

IPC 8 full level

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