

Title (en)  
WIRE ROD FOR STEEL WIRE, AND STEEL WIRE

Title (de)  
DRAHTSTAB FÜR STAHL DRAHT SOWIE STAHL DRAHT

Title (fr)  
TIGE DE FIL MÉTALLIQUE POUR FIL D'ACIER ET FIL D'ACIER

Publication  
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Application  
**EP 18171309 A 20150602**

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Abstract (en)

An object of the present invention is to provide a method for producing a wire rod for a steel wire, which is excellent in low cycle fatigue characteristics and is useful as a material for a high-strength steel wire such as a wire rope or a PC steel wire. A wire rod for a steel wire produced by the method of the present invention comprises by mass: C: 0.70 to 1.3%; Si: 0.1 to 1.5%; Mn: 0.1 to 1.5%; N: 0.001 to 0.006%; Al: 0.001 to 0.10%; Ti: 0.02 to 0.20%; B: 0.0005 to 0.010%; P: 0% or more and 0.030% or less; and S: 0% or more and 0.030% or less, with the balance being iron and inevitable impurities, wherein, the wire rod has pearlite as a main phase, an area ratio of proeutectoid ferrite is 1.0% or less, and an average thickness of the proeutectoid ferrite is 5  $\mu$ m or less.

IPC 8 full level

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Citation (applicant)

- JP 2011225990 A 20111110 - KOBE STEEL LTD
- JP 2007039800 A 20070215 - NIPPON STEEL CORP
- WO 2007139234 A1 20071206 - NIPPON STEEL CORP [JP], et al

Citation (search report)

- [X] JP 2013204069 A 20131007 - KOBE STEEL LTD
- [A] JP 2007039800 A 20070215 - NIPPON STEEL CORP
- [A] JP H11199978 A 19990727 - KOBE STEEL LTD
- [A] EP 1203829 A2 20020508 - KOBE STEEL LTD [JP]

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