

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

Title (de)
DRAHTMATERIAL FÜR STAHLDRAHT SOWIE STAHLDRAHT

Title (fr)
MATÉRIAU DE FIL POUR FIL D'ACIER, ET FIL D'ACIER

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Application
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Abstract (en)
An object of the present invention is to provide 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, and to provide a steel wire that can exhibit such characteristics. A wire rod for a steel wire 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 μ m or less.

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