

ABSTRACT

PC STEEL WIRE OR ROD

A PC steel wire or rod having an excellent straightness and pressure-formability is disclosed, an apparatus for producing the wire or rod being shown schematically in Fig. 1. The wire or rod is prepared by a process which comprises: heating a steel wire or rod; annealing the wire or rod while being simultaneously provided with a tensile stress of from 6 to 14% of the proportional limit at the ambient temperature and a minute bending strain of from 0.1 to 0.5% of the proportional limit at the ambient temperature, in the annealing temperature range on in a cooling step; and quenching the wire or rod. The wire or rod comprises 0.20 to 0.40% by weight of C, 1.00 to 1.40% by weight of Si, 0.60 to 0.90% by weight of Mn, 0.04 to 0.06% by weight of Mo, 0.10 to 0.30% by weight of Cr, and the balance of iron, with unavoidable impurities.

FIGURE 1

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