

Title (en)
Multiphase steel and method for its production

Title (de)
Mehrphasiger Stahl und Herstellungsverfahren

Title (fr)
Acier à plusieurs phases et procédé pour sa fabrication

Publication
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Application
EP 01201725 A 20010510

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Abstract (en)
The invention relates to a high-strength steel sheet, which is uncoated or galvanized, and is characterized by a microstructure comprising ferrite and hardening structures, namely martensite, bainite, pearlite and/or residual austenite. The steel has a high work hardening index during static and dynamic deformation. The yield point:tensile strength ratio is low, both during static and dynamic deformation, so that the steel is easy to work. The energy absorption during both static and dynamic deformation with 10-20% elongation is relatively high; it should be noted that 15% elongation is a typical value encountered in the event of a collision. The invention deals with high-strength cold-rolled steel for use in (automotive) components which are suitable for absorbing energy at high speed.

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Citation (search report)
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