

Title (en)

STEEL FOR PRODUCING MACHINE COMPONENTS FORMED FROM SOLID STOCK

Title (de)

STAHL ZUR HERSTELLUNG VON MASSIV UMGEFORMTEN MASCHINENBAUTEILEN

Title (fr)

ACIER POUR PRODUIRE DES COMPOSANTS DE MACHINES MIS EN FORME À L'ÉTAT SOLIDE

Publication

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Application

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Abstract (en)

[origin: US2010189591A1] The invention relates to a steel and a processing method for producing machine components formed from solid stock, particularly for vehicle construction, having a primarily bainitic structure, characterized in that the chemical composition thereof has the following contents in weight percent: 0.10% \leq C \leq 0.25%, 0.15% \leq Si \leq 0.40%, 1.00% \leq Mn \leq 1.50%, 1.00% \leq Cr \leq 2.00%, 0.20% \leq Ni \leq 0.40%, 0.05% \leq Mo \leq 0.20%, 0.010% \leq Nb \leq 0.040%, 0.05% \leq V \leq 0.25%, 0.01% \leq Al \leq 0.05%, 0.005% \leq N \leq 0.025%, 0% \leq B \leq 0.0050%, with the remainder being iron and the steel making-related accompanying elements and residual materials.

IPC 8 full level

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