

Title (en)
MICROALLOYED STEEL FOR HEAT-FORMING HIGH-RESISTANCE AND HIGH-YIELD-STRENGTH PARTS, AND METHOD FOR PRODUCING COMPONENTS MADE OF SAID STEEL

Title (de)
MIKROLEGIERTER STAHL ZUM WARMFORMEN VON HOCHBESTÄNDIGEN TEILEN MIT HOHER STRECKGRENZE SOWIE VERFAHREN ZUR HERSTELLUNG VON BAUTEILEN AUS DIESEM STAHL

Title (fr)
ACIER HAUTE RÉSISTANCE FAIBLEMENT ALLIÉ POUR FORMAGE À CHAUD DE PIÈCES DE HAUTE RÉSISTANCE ET DE LIMITE ÉLASTIQUE ÉLEVÉE ET PROCÉDÉ POUR OBTENIR DES COMPOSANTS DE CET ACIER

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Application
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Abstract (en)
The invention relates to a microalloyed steel for heat-forming high-strength and high-yield strength parts, and to a method for producing components made of said steel, having a specific composition of the following elements: 0.30% # C # 0.50%, 0.50% # Si # 1.50%, 0.50% # Mn # 1.50%, 0.005% # V < 0.50%, 0.001% # Ti < 0.050% which, using a method suitable for producing said steel, achieves low P content and good inclusion cleanliness. In addition, tensile strength values between 1050 and 1200 MPa are achieved using a controlled cooling process.

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US11319609B2; JP2020147810A; CN114667363A; JP2023502106A; WO2023014332A1; WO2021099815A1

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