

Title (en)

STEEL MATERIAL HAVING EXCELLENT WEAR RESISTANCE AND MANUFACTURING METHOD FOR SAME

Title (de)

STAHLMATERIAL MIT AUSGEZEICHNETER VERSCHLEISSFESTIGKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU D'ACIER PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À L'USURE ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

The purpose of the present invention is to provide a steel material and a manufacturing method for the same, wherein the steel material has excellent strength, elongation, and impact toughness as well as excellent inside quality and wear resistance. According to the present invention, provided are a steel material having excellent wear resistance and a manufacturing method for the same, wherein the steel material contains, in weight, 0.55-1.4% carbon (C), 12-23% manganese (Mn), 5% or less (excluding 0%) chromium (Cr), 5% or less (excluding 0%) copper (Cu), 0.5% or less (excluding 0%) Al, 1.0% or less (excluding 0%) Si, 0.02% or less (including 0%) S, 0.04% or less (including 0%) phosphor (P), and the balance Fe and unavoidable impurities, and has a microstructure comprising, in area, 10% or less (including 0%) carbide and the balance austenite.

IPC 8 full level

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