

Title (en)

STEEL FOR MACHINE STRUCTURE EXCELLING IN MACHINABILITY AND STRENGTH PROPERTY

Title (de)

STAHL FÜR MASCHINENKONSTRUKTION MIT HERVORRAGENDER BEARBEITBARKEIT UND FESTIGKEIT

Title (fr)

ACIER POUR STRUCTURE MÉCANIQUE PRÉSENTANT UNE EXCELLENTE USINABILITÉ ET UNE EXCELLENTE PROPRIÉTÉ DE RÉSISTANCE

Publication

**EP 2060647 A1 20090520 (EN)**

Application

**EP 07860545 A 20071225**

Priority

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- JP 2006347928 A 20061225

Abstract (en)

The invention provides a machine structural steel excellent in machinability and strength properties that has good machinability over a broad range of machining speeds and also has high impact properties and high yield ratio, which machine structural steel comprises, in mass%, C: 0.1 to 0.85%, Si: 0.01 to 1.5%, Mn: 0.05 to 2.0%, P: 0.005 to 0.2%, S: 0.001 to 0.15%, total Al: greater than 0.05% and not greater than 0.3%, Sb: less than 0.0150% (including 0%), and total N: 0.0035 to 0.020%, solute N being limited to 0.0020% or less, and a balance of Fe and unavoidable impurities.

IPC 8 full level

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CPC (source: EP KR US)

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