

Title (en)
Hot work tool steel and steel product using the same

Title (de)
Warmarbeitsstahl und Stahlprodukt damit

Title (fr)
Acier pour outil de travail à chaud et produit d'acier l'utilisant

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EP 2270245 A1 20110105 (EN)

Application
EP 10006150 A 20100614

Priority
JP 2009143377 A 20090616

Abstract (en)
The present invention provides a hot work tool steel containing: 0.20#C#0.50 mass%, 0.40<Si<0.75 mass%, 0.50<Mn#1.50 mass%, 5.24#Cr#9.00 mass%, 1.08<Mo<2.99 mass%, and, 0.30<V<0.70 mass%, with the balance being Fe and unavoidable impurities; and a steel product using the hot work tool steel. The hot work tool steel is capable of improving the thermal conductivity as compared with general-purpose die steel (JIS SKD61) and has a higher impact value than that of general-purpose die steel while maintaining machinability at a level equal to or higher than that of general-purpose die steel.

IPC 8 full level
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Citation (applicant)

- JP H06322483 A 19941122 - DAIDO STEEL CO LTD
- JP H03402 A 19910107 - SUMITOMO METAL IND
- JP H0762494 A 19950307 - DAIDO STEEL CO LTD
- JP S6059053 A 19850405 - DAIDO STEEL CO LTD
- JP H08100239 A 19960416 - DAIDO STEEL CO LTD
- JP 2008056982 A 20080313 - DAIDO STEEL CO LTD
- JP 2004183008 A 20040702 - SUMITOMO METAL IND
- JP 2005307242 A 20051104 - HONDA MOTOR CO LTD, et al
- JP S6462444 A 19890308 - KAWASAKI STEEL CO
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Citation (search report)

- [XII] JP 2000160298 A 20000613 - SUMITOMO METAL IND
- [XII] JP 2003268500 A 20030925 - DAIDO STEEL CO LTD
- [XII] EP 2065483 A1 20090603 - HITACHI METALS LTD [JP]

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