

Title (en)
HIGH-SPEED STEEL

Title (de)
SCHNELLARBEITSSTAHL

Title (fr)
ACIER A COUPE RAPIDE

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EP 0885313 B1 20011024 (FR)

Application
EP 97934581 A 19970717

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Abstract (en)
[origin: WO9803692A1] A steel produced by densified and agglomerated high-purity pre-alloyed powder metallurgy is disclosed. The steel comprises < 1 wt.% of manganese, < 1 wt.% of silicon, 4.50-6.45 wt.% of chromium, 4-6 wt.% of molybdenum, 6.10-6.50 wt.% of vanadium, 18.20-18.70 wt.% of tungsten, <=0.020 of sulphur, <=0.030 of phosphorus, <=100 ppm of oxygen, 5-7 wt.% of cobalt, 0.050-0.080 wt.% of nitrogen, <=0.020 of aluminium and 1.80-1.95 wt.% of carbon. The balance is iron plus the typical impurities arising during steel production. Said steel has a dispersion essentially consisting of carbides such as vanadium MC.

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