

Title (en)
Cobalt-free maraging steel

Title (de)
Martensit-aushärtender Stahl ohne Kobalt

Title (fr)
Acier maraging sans cobalt

Publication
EP 0931844 A1 19990728 (FR)

Application
EP 98403247 A 19981222

Priority
FR 9800694 A 19980123

Abstract (en)
A cobalt-free maraging steel, having specified nickel, molybdenum, titanium, aluminum and carbon contents, is new. A new cobalt-free maraging steel has the composition (by wt.) 18-23% Ni, 4.5-8% Mo, 1-2% Ti, 0-0.3% Al, $\leq 0.01\%$ C, balance Fe and impurities, the sum of Ni + Mo being $\leq 27\%$ and the sum of Ni + 3 x Mo + 20 x Ti + 10 x Al being $\geq 60\%$.

Abstract (fr)
Acier maraging sans cobalt dont la composition chimique comprend, en poids : $18\% \leq \text{Ni} \leq 23\%$; $4,5\% \leq \text{Mo} \leq 8\%$; $1\% \leq \text{Ti} \leq 2\%$; $0\% \leq \text{Al} \leq 0,3\%$; $\text{C} \leq 0,01\%$; le reste étant du fer et des impuretés, la composition chimique satisfaisant, en outre, les conditions suivantes : $23\% \leq \text{Ni} + \text{Mo} \leq 27\%$ et $\text{Ni} + 3 \times \text{Mo} + 20 \times \text{Ti} + 10 \times \text{Al} \geq 60\%$.

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Citation (search report)

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