

Title (en)  
NICKEL-BASED ALLOY WITH SILICON, ALUMINUM, AND CHROMIUM

Title (de)  
NICKELBASISLEGIERUNG MIT SILIZIUM, ALUMINIUM UND CHROM

Title (fr)  
ALLIAGE À BASE DE NICKEL CONTENANT DU SILICIUM, DE L'ALUMINIUM ET DU CHROME

Publication  
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Application  
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Abstract (en)  
[origin: WO2014139490A1] The invention relates to a nickel-based alloy, consisting of (in mass%) 1.5 - 3.0% Si, 1.5 - 3.0% Al, and > 0.1 - 3.0% Cr, where Al + Si + Cr is  $\geq 4.0$  and  $\leq 8.0$  for the contents of Si, Al, and Cr in %; 0.005 - 0.20% Fe, 0.01 - 0.20% Y, and < 0.001 - 0.20% of one or more the elements Hf, Zr, La, Ce, Ti, where  $Y + 0.5 \cdot \text{Hf} + \text{Zr} + 1.8 \cdot \text{Ti} + 0.6 \cdot (\text{La} + \text{Ce})$  is  $\geq 0.02$  and  $\leq 0.30$  for the contents of Y, Hf, Zr, La, Ce, and Ti in %; 0.001 - 0.10% C; 0.0005 - 0.10% N; 0.001 - 0.20% Mn; 0.0001 - 0.08 % Mg; 0.0001 - 0.010% O; max. 0.015% S; max. 0.80% Cu; Ni remainder; and the usual production-related impurities.

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