

Title (en)
NiCrFe ALLOY

Title (de)
NICRFE-LEGIERUNG

Title (fr)
ALLIAGE À BASE DE NiCrFe

Publication
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Application
EP 17858416 A 20171004

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Abstract (en)
A NiCrFe alloy having excellent creep strength and stress relaxation cracking resistance is provided. The NiCrFe alloy according to the present invention has a chemical composition consisting of, in mass%, C: 0.03 to 0.15%, Si: not more than 1.00%, Mn: not more than 2.00%, P: not more than 0.040%, S: not more than 0.0050%, Cr: 18.0 to 25.0%, Ni: 25.0 to 40.0%, Ti: 0.10 to 1.60%, Al: 0.05 to 1.00%, N: not more than 0.020%, O: not more than 0.008%, and rare earth metal (REM): 0.001 to 0.100%, with the balance being Fe and impurities, the chemical composition satisfying Formulae (1) to (3): where, each symbol of element in the formulae is substituted by the content (mass%) of the corresponding element, and A(REM) in Formula (3) is substituted by the atomic weight of each rare earth metal.

IPC 8 full level
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Cited by
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