

Title (en)
NICKEL-CHROMIUM ALLOY

Title (de)
NICKEL-CHROM-LEGIERUNG

Title (fr)
ALLIAGE NICKEL-CHROME

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Application
EP 09744619 A 20091013

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Abstract (en)
[origin: CA2740160A1] The invention relates to a nickel-chromium alloy, comprising 0.4 to 0.6% carbon, 28 to 33% chromium, 15 to 25% iron, 2 to 6% aluminum, up to 2% silicon, up to 2% manganese, up to 1.5% niobium, up to 1.5% tantalum, up to 1.0% tungsten, up to 1.0% titanium, up to 1.0% zirconium, up to 0.5% yttrium, up to 0.5% cerium, up to 0.5% molybdenum, up to 0.1% nitrogen and the remainder nickel, having high oxidation and carburization resistance, long-time rupture strength and creep resistance. Said alloy is particularly suited as a material for components of petrochemical plants and parts, such as for pipe coils in cracking and reforming furnaces, preheaters and reformer tubes and for use for parts of iron ore direct reduction systems.

IPC 8 full level
C22C 19/05 (2006.01)

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Citation (examination)
CLYDE L. BRIANT: "Impurities in Engineering Materials", 1 January 1999, MARCEL DEKKER, INC., New York, ISBN: 0-8247-9965-8, pages: 62 - 63

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WO2019034845A1

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