

Title (en)

High strength low thermal expansion alloy

Title (de)

Hochfeste Legierung mit niedrigem Ausdehnungskoeffizient

Title (fr)

Alliage à haute résistance et à coefficient d'expansion thermique faible

Publication

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Application

EP 96306099 A 19960821

Priority

- US 51967895 A 19950825
- US 69648796 A 19960814

Abstract (en)

[origin: EP0765950A1] The alloy of the invention provides a low coefficient of thermal expansion alloy having a CTE of about 4.9×10^{-6} m/m/ DEG C or less at 204 DEG C and a relatively high strength. The alloy contains about 40.5 to about 48 nickel, about 2 to about 3.7 niobium. about 0.75 to about 2 titanium, about 0 to about 1 aluminum, about 3.7 or less total niobium plus tantalum and a balance of iron and incidental impurities. Alloys of the invention may be aged to a Rockwell C hardness of at least about 30.

IPC 1-7

C22C 38/08

IPC 8 full level

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