



2.4631

Description - Alloy 80 A / 2.4631 is a nickel-chromium alloy with aluminum and titanium.

Special properties - Good corrosion resistance equal to Alloy 75. Creep strength up to 800 °C.

Suitable welding filler materials - 2.4648.

Application - Components for gas and steam turbine.

Chemical Composition in %

C	Si	Mn	Cr	Ni	Ti	Fe	Co	Al
0.04-0.1	≤1.00	≤1.00	18.0-21.0	Rest	1.8-2.7	≤1.5	≤2.00	1.0-1.8

Standards

Material No.	2.4631
EN Designation	NiCr20TiAl
UNS	N07080
Alloy	80 A

Mechanical Properties 20 °C

0,2% Yield strength Rp, N/mm ²	≥590
Tensile strength Rm, N/mm ²	≥980
Elongation A5, %	≥12
Modulus of elasticity, kN/mm ²	225
Resistant on air up to °C	950

Physical Properties 20 °C

Density, g/cm ³	8.2
Specific heat capacity, J/kg K	420
Thermal conductivity, W/m K	13
Electrical resistivity, Ω mm ² /m	1.09