

Brand name | Nicrofer® 7520Ti

Trade name | Alloy 80 A

Material No.	EN Designation	UNS	Alloy
2.4952	NiCr20TiAl	N07080	80 A

Description | Alloy 80 A / 2.4952 is a nickel-chromium alloy with aluminum and titanium.

Special properties | Good corrosion resistance equal to alloy 75. Creep strength up to 800°C.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.04-0.10	1.00	1.00	0.02	0.015
Cr %	Ni %	Ti ≤ %	Cu %	Al %
18.0-21.0	≥ 65.0	1.80-2.70	≤ 0.20	1.00-1.80
Co %	B %	Fe %		
≤ 1.00	≤ 0.008	≤ 1.50		

0.2% Yield strength R_p ≥ N/mm ²	Tensile strength R_m N/mm ²	Elongation A_5 ≥ %	Resistant on air up to °C	Modulus of elasticity kN/mm ²
590	≥ 980	12	950	225

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.2	460	13	1.15

Suitable welding filler materials | 2.4648

Application | Parts for gas turbines and transmissions

Available forms for 2.4952 / ALLOY 80 A

