

Brand name | Nimonic® 90

Trade name | Alloy 90

Material No.	EN Designation	UNS	Alloy
2.4969	NiCr20Co18Ti	N07090	90

Description | Alloy 90 / 2.4969 is a nickel-chromium-cobalt alloy.

Special properties | High stress-rupture strength and creep resistance at 920°C. Good resistance to high-temperature corrosion and oxidation.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.13	1.00	1.00	0.02	0.015
Cr %	Ni %	Ti ≤ %	Cu %	Al %
18.0-21.0	Rest	2.00-3.00	≤ 0.20	1.00-2.00
Zr %	Co %	B %	Fe %	
≤ 0.15	15.0-21.0	≤ 0.020	≤ 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
685	≥ 1200	16,5	950	230

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

Application | Parts for gas turbines and transmissions

Available forms for 2.4969 / ALLOY 90

