

Trade name | Alloy 80/20

Standards	Material No.	EN Designation	UNS	Alloy
	2.4869	NiCr80-20	N06003	80/20

Description | Alloy 80/20 /2.4869 is an austenitic nickel-chromium alloy.

Special properties | Good resistance to oxide scaling and to thermal fatigue up to 1200°C.

Chemical Composition	C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
	≤ 0.15	0.50-2.00	1.00	0.02	0.015
	Cr %	Ni %	Cu %	Al %	Co %
	19.0-21.0	≥ 75.0	≤ 0.50	≤ 0.30	≤ 1.50
	Fe %				
	≤ 1.00				

Mechanical Properties 20°C	0.2% Yield strength $R_p \geq$ N/mm ²	Tensile strength R_m N/mm ²	Elongation $A_5 \geq$ %	Modulus of elasticity kN/mm ²
	280	≥ 650	30	200

Physical Properties 20°C	Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	8.3	420	15	1.12

Suitable welding filler materials | 2.4869

Application | Electrical furnaces, enameling furnaces

Available forms for 2.4869 / ALLOY 80/20	Bars	Forged / cast parts	Finished part (drawing)
			