



2.4869

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.

Suitable welding filler materials - 2.4869.

Application - Electrical furnaces, enameling furnaces.

Chemical Composition in %

C	Si	Mn	Cr	Ni	Cu	Al	Co	Fe	P
≤0.15	0.5-2.0	≤1.00	19.0-21.0	≥75.0	≤0.5	≤0.3	≤1.5	≤1.00	≤0.02

Standards

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

Mechanical Properties 20 °C

0,2% Yield strength Rp, N/mm ²	≥280
Tensile strength Rm, N/mm ²	≥650
Elongation A5, %	≥30
Modulus of elasticity, kN/mm ²	200

Physical Properties 20 °C

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