

Brand name | Inconel® Alloy 601, Nicrofer® 6023 H

Trade name | Alloy 601

Material No.	EN Designation	UNS	Alloy
2.4851	NiCr23Fe15	N06601	601

Description | Alloy 601 / 2.4851 is a nickel-chromium-iron alloy.

Special properties | Excellent resistance to oxidation at high temperatures. Good resistance in stress-corrosion cracking.





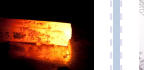

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.03-0.10	0.50	1.00	0.02	0.015
Cr %	Ni %	Ti ≤ %	Cu %	Al %
21.0-25.0	58.0-63.0	≤ 0.50	≤ 0.50	1.00-1.70
Co %	B %	Fe %		
≤ 1.50	≤ 0.006	≤ 18.0		

Hardness HB 30 ≤ HB	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
220	205	550-750	30	1200
Modulus of elasticity kN/mm ²				
207				

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.1	450	11.3	1.19

Suitable welding filler materials | 2.4649

Application | Ceramic furnace, heat treatment furnaces

Sheets/Plates	Bars	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
					

Available forms for 2.4851 / ALLOY 601