

Brand name | INCOLOY® Alloy 800, Nicrofer® 3220 H

Trade name | Alloy 800

Material No.	EN Designation	UNS	Alloy
1.4876	X10CrNiAlTi32-21	N08800	800

Description | Alloy 800 / 1.4876 is an austenitic heat resistant nickel-iron-chromium alloy.

Special properties | Good resistance to reducing, oxidizing and nitriding atmospheres. Metallurgical stability in long-term application at high temperatures.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.12	1.00	2.00	0.03	0.015
Cr %	Ni %	Ti ≤ %	Al %	
19.0-23.0	30.0-34.0	0.15-0.60	0.15-0.60	

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
192	170	450-680	30	1100
Modulus of elasticity kN/mm ²				
194				

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8	550	12	1

Suitable welding filler materials | 2.4806; 2.4648

Application | Furnaces and furnace components, oil industry

Available forms for 1.4876 / ALLOY 800

