1.4864 AISI 330

Brand name

Nicrofer® 3718

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4864	X12NiCrSi35-16	(330)	N08330

Alloy
330

Description

Alloy 330 / 1.4864 is a heat resistant nickel-iron-chromium alloy.

Special properties

Good oxidation and scale resistance. Good mechanical properties with high strength at elevated temperatures.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.15	1.00-2.00	2.00	0.045	0.015

Cr %	Ni %	N %
15.0-17.0	33.0-37.0	≤ 0.11

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Resistant on air up to °C
223	230	550-750	30	1100

Modulus of elasticity kN/mm²
194

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
8	550	12.5	1

Suitable welding filler materials

1.4863

Application

Furnace and apparatus engineering

Available forms for 1.4864 / AISI 330

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

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