

Standards

Material No.	EN Designation	UNS	Alloy
1.4886	X12NiCrSi35-16	N08330	330

Description

Alloy 330 / 1.4886 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 ≤ %
≤ 0.08	1.00-2.00	2.00	0.03	0.03
Cr %	Ni %	Cu %		
17.0-20.0	34.0-37.0	≤ 1.00		

Mechanical Properties 20°C

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
215	190	500-720	40	850
Modulus of elasticity kN/mm ²				
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
7.9	500	15	0.73

Suitable welding filler materials

1.4551; 1.4829

Application

Furnace and apparatus engineering

Available forms for 1.4886 / ALLOY 330

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