

Chemical Composition

C %	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.05-0.10	0.50	1.00	0.02	0.015
Cr %	Ni ≤%	Ti ≤%	Al ≤%	Cu ≤%
14.0-17.0	72.0	0.30	0.30	0.50
Co ≤%	B ≤%	Fe %		
1.50	0.006	6.00-10.0		

Description

Alloy 600 / 2.4816 is a nickel-chromium-iron alloy.

Special Properties

Good resistance to oxidation, carburization and nitriding. Good resistance to stress corrosion cracking. Good resistance to dry chlorine and hydrogen chloride.

Steel Grade

Alloy	UNS	Material No.	EN Designation
600	N06600	2.4816	NiCr15Fe

Mechanical Properties 20°C

0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
175	490-640	35	214

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
8.5	460	14.8	0.98

Suitable Welding Filler Materials

2.4620/2.4648

Application

Industrial furnace, chemical industry, reactor construction

Available Forms for ALLOY600

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