

## Chemical Composition

C %	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.03-0.10	0.50	1.00	0.02	0.015
Cr %	Ni %	Ti ≤%	Al %	Cu ≤%
21.0-25.0	58.0-63.0	0.05	1.00-1.70	0.50
Co ≤%	B ≤%	Fe ≤%		
1.50	0.006	18.0		

## 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.

## Steel Grade

Alloy	UNS	Material No.	EN Designation
601	N06601	2.4851	NiCr23Fe15

## Mechanical Properties 20 °C

0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> ≥ %	Modulus of elasticity kN/mm <sup>2</sup>	Hardness HB 30 ≤ HB
205	550-750	30	207	220

Resistant on air up to °C
1200

## Physical Properties 20°C

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

## Suitable Welding Filler Materials

2.4649

## Application

Ceramic furnace, heat treatment furnaces

## Available Forms for ALLOY601

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