

1.4841

Description - AISI 314 / 1.4841 is an austenitic and heat resistant steel.

Special properties - Good creep rupture strength. Very good resistance to high-corrosion.
Resistant to scaling up to 1150°C.

Suitable welding filler materials - 1.4842.

Application - Furnace and apparatus engineering.

Chemical Composition in %

C	Si	Mn	Cr	Ni	N	Fe
≤0.2	1.5-2.5	≤2.00	24.0-26.0	19.0-22.0	≤0.11	Rest

Standards

Material No.	1.4841
EN Designation	X15CrNiSi25-21
AISI/SAE	314
UNS	S31400

Mechanical Properties 20 °C

Hardness HB 30	≤223
0,2% Yield strength Rp, N/mm²	≥230
Tensile strength Rm, N/mm²	550-750
Elongation A5, %	≥30
Modulus of elasticity, kN/mm²	196
Resistant on air up to °C	1150

Physical Properties 20 °C

Density, g/cm³	7.9
Specific heat capacity, J/kg K	500
Thermal conductivity, W/m K	15
Electrical resistivity, Ω mm²/m	0.9