



1.4845

Description - AISI 310 S / 1.4845 is an austenitic and heat resistant steel.

Special properties - Similar to AISI 314 / 1.4841, but with higher ductility. Good creep rupture strength. Very good resistance to high-corrosion. Resistant to scaling up to 1050°C.

Suitable welding filler materials - 1.4842.

Application - Furnace and apparatus engineering.

Chemical Composition in %

C	Si	Mn	Cr	Ni	P	Fe	N
≤0.1	≤1.5	≤2.00	24.0-26.0	19.0-22.0	≤0.045	Rest	≤0.11

Standards

Material No.	1.4845
EN Designation	X8CrNi25-21
AISI/SAE	310 S
UNS	S31008

Mechanical Properties 20 °C

Hardness HB 30	≤192
0,2% Yield strength Rp, N/mm ²	≥210
Tensile strength Rm, N/mm ²	500-700
Elongation A5, %	≥35
Modulus of elasticity, kN/mm ²	196

Physical Properties 20 °C

Density, g/cm ³	7.9
Specific heat capacity, J/kg K	500
Thermal conductivity, W/m K	15
Electrical resistivity, Ω mm ² /m	0.85