AISI310S 1.4845

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
O.10	1.50	2.00	0.045	0.015

Cr %	Ni %	N ≤%
24.0-26.0	19.0-22.0	0.11

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.

Steel Grade

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

Mechanical Properties 20℃

Hardness HB 30 ≤ HB	0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm²
192	210	500-700	35	196

Resistant on air up to °C
1050

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
7.98	500	15	o.85

Suitable Welding Filler Materials

1.4842

Application

Furnace and apparatus engineering

Available Forms for AISI310S

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

SHEYE METAL

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