

AISI 310S / EN 1.4845 is an austenitic steel which has good heat resistance and strength at high temperatures. The resistance to scaling in air is 1050°C (for higher temperatures we recommend the material AISI 314 / EN 1.4841). This stainless steel grade is well suited for welding, forging and cold forming.

Typical areas of application are in apparatus engineering, furnace construction or the chemical industry.

Chemical composition (% by mass according to DIN EN 10095 for EN 1.4845)

C	Si	Mn	P	S	N	Cr	Cu	Mo	Ni	Ti	Other
≤ 0,10	≤ 1,50	≤ 2,00	≤ 0,045	≤ 0,015	≤ 0,11	24,0 – 26,0	-	-	19,0 – 22,0	-	-

Specification

EN-grade	1.4845
EN-short name	X15CrNi25-21
EN-standard	10095
AISI	310 S *
B.S.	310S24 *
JIS	SUS310 *
Microstructure	austenite

Physical properties

Magnetizability	non
Density (kg/dm ³)	7,9
Thermal conductivity (up to 20°C)	15
Electronic resistance at room temperature (in Ω mm ² /m)	0,85

Possible fields of application

apparatus engineering
automotive industry
chemical industry
petroleum industry
mechanical engineering
furnace construction
and more

Heat treatment and hot forming

Solution heat treatment (cooling by air or water)	1050-1150 °C
Hot forming (cooling by air)	1150-800 °C

Welding

The material AISI 310S / EN 1.4845 can be used for all common welding processes (except gas welding).

Note: In the welded state, the material does not show any resistance to intergranular corrosion.

If you have further questions about this or any other product, please contact our team at +49 2263-9240-0 or email agst@agst.de

(* in accordance with)

Please note:

The information given in this data sheet has been compiled to the best of our knowledge and is based on the current version of the relevant standard.

It is considered for reference only and we assume no liability for any errors.