

1.4845 310S

X8CrNi25-21	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N	%Cu	%Mo
	-	-	-	-	-	24.0	19.0	-	-	-
	0.10	1.50	2.00	0.045	0.015	26.0	22.0	0.11	-	-

STEEL PROPERTIES

1.4845 310S is a heat-resistant austenitic stainless steel designed for high-temperature applications.

EQUIVALENT GRADES

EN 10088-3	1.4845	X8CrNi25-21
AFNOR	Z12CN25.20	
JIS	SUS310S	
AISI	310S	
BS	310S24	

APPLICATIONS

1.4845 310S Used in applications requiring high-temperature resistance, such as industrial furnaces, heat exchangers, and components for the petrochemical industry.

HEAT TREATMENT

1.4845 310S is supplied in annealed +AT conditions.

Mechanical Values for 1.4845 310S at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	Tensile Strength R _m Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+AT	192	-	Max 800	-	-	-	-
<= 160	-	-	210	500 to 700	35	-	33	-

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Mechanical Values for 1.4845 310S Bright Bars at room temperature in EN 10088-3: 2014 in conditions 2H, 2B, 2G, 2P

Diameter (mm)	Annealed		Heat Treatment Condition	0.2% Proof strength min.	Tensile Strength R _m Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R _m Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	-	-	+AT	320	500 to 750	-	-	-	-
10<t<=16	-	-	+AT	310	500 to 780	-	-	-	-
16<t<=40	-	-	+AT	250	430 to 730	-	-	-	-
40<t<=63	-	-	+AT	250	430 to 730	-	-	-	-
63<t<=160	-	-	+AT	250	430 to 630	-	-	-	-

PRODUCTS OFFERED

- PEELED BARS
- BRIGHT BARS
- HEXAGONS
- SQUARES
- FLAT BARS
- WIRES