

1.4878 321H

X8CrNiTi18-10	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Ni	%Ti
	-	-	-	-	-	17.0	-	-	9.0	5*C
	0.10	1.00	2.00	0.045	0.015	19.0	-	-	12.0	0.80

STEEL PROPERTIES

1.4878 321H is an austenitic stainless steel with enhanced high-temperature properties.

EQUIVALENT GRADES

EN 10088-3	1.4878	X8CrNiTi18-10
AFNOR	Z6CNT18.12	
JIS	SUS321	
AISI	321H	
BS	321S20	

APPLICATIONS

1.4878 321H Used in applications requiring high-temperature resistance, such as industrial furnaces, heat exchangers, and components for the petrochemical industry. Often used in environments where intergranular corrosion resistance is crucial.

HEAT TREATMENT

1.4878 321H is supplied in annealed +AT conditions.

Mechanical Values for 1.4878 321H 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	215	-	Max 800	-	-	-	-
<= 75	-	-	190	500 to 720	40	-	40	-

1.4878 321H

Mechanical Values for 1.4878 321H 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	210	900 to 750	-	-	-	-
10<t<=16	-	-	+AT	210	900 to 780	-	-	-	-
16<t<=40	-	-	+AT	250	850 to 730	-	-	-	-
40<t<=63	-	-	+AT	250	850 to 730	-	-	-	-
63<t<=75	-	-	+AT	250	850 to 630	-	-	-	-

PRODUCTS OFFERED

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