

1.4509 441

X2CrTiNb18	%C	%Si	%Mn	%P	%S	%Cr	%Ti	%Mo	%Nb	%Ni
	-	-	-	-	-	17.5	0.10	-	3*C+0.30	-
	0.030	1.00	1.00	0.040	0.015	18.5	0.60	-	1.00	-

STEEL PROPERTIES

1.4509 441 is a ferritic stainless steel known for its good corrosion resistance, formability, and weldability. It is often used in applications where moderate corrosion resistance and high-temperature strength are required.

EQUIVALENT GRADES

EN 10088-3	1.4509	X2CrTiNb18
AFNOR	Z2CND12-12	
JIS	-	
AISI	441	
BS	-	

APPLICATIONS

1.4509 441 is used in a range of applications, including automotive components, exhaust systems, architectural cladding, and appliances. It is chosen in situations where moderate corrosion resistance, high-temperature strength, and formability are required.

HEAT TREATMENT

1.4509 441 is supplied in annealed +A conditions.

Mechanical Values for 1.4509 441 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.)
-	+A	200	-	Max 800	-	-	-	-
<=50	-	-	200	420 to 620	18	-	-	-

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Mechanical Values for 1.4509 441 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	650	305	+A	320	500 to 750	8	-	-	-
10<t<=16	650	305	+A	300	480 to 750	10	-	-	-
16<t<=40	450	280	+A	240	400 to 700	15	-	-	-
40<t<=50	450	260	+A	240	400 to 700	15	-	-	-

PRODUCTS OFFERED

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