

1.4418 SS2387

X4CrNiMo16-5-1	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%N	%Ni
	-	-	-	-	-	15.0	-	0.80	0.020	4.0
	0.06	0.70	1.50	0.040	0.030	17.0	-	1.50	-	6.0

STEEL PROPERTIES

1.4418 SS2387 is a martensitic stainless steel known for its corrosion resistance, good mechanical properties, and its ability to be hardened through heat treatment. 1.4418 offers good corrosion resistance, especially in non-severe environments. It is resistant to moisture, mild chemicals, and atmospheric conditions.

EQUIVALENT GRADES

EN 10088-3	1.4418	X4CrNiMo16-5-1
AFNOR	Z6CND16.05.01	
GOST	-	
AISI	SS2387	
BS	-	

APPLICATIONS

1.4418 SS2387 is used in various applications where a combination of corrosion resistance and mechanical strength is required. It is commonly used in the automotive industry, manufacturing tools, construction equipment, and industrial machinery.

HEAT TREATMENT

1.4418 SS2387 is supplied in annealed +A, quenched tempered +QT conditions.

Mechanical Values for 1.4418 SS2387 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	320	-	Max 1100	-	-	-	-
<= 160	+QT760	-	550	760 to 960	16	-	90	-

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Mechanical Values for 1.4418 SS2387 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 Rm Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	Rm Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	1150	380	+QT900	750	900 to 1150	10	-	-	-
10<t<=16	1150	380	+QT900	750	900 to 1150	10	-	-	-
16<t<=40	1100	320	+QT900	700	900 to 1100	12	-	80	-
40<t<=63	1100	320	+QT900	700	900 to 1000	16	-	80	-
63<t<=160	1100	320	+QT900	700	900 to 1000	16	-	80	-

PRODUCTS OFFERED

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