

## 1.4122

X39CrMo17-1	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Nb	%Ni
	0.33	-	-	-	-	15.5	-	0.80	-	-
	0.45	1.00	≤1.50	0.040	≤0.030	17.5	-	1.30	-	≤01.00

### STEEL PROPERTIES

1.4122 is a martensitic stainless steel, known for its good corrosion resistance and mechanical properties. However, this reduces the corrosion resistance of the steel.

### EQUIVALENT GRADES

EN 10088-3	1.4122
AFNOR	X39CrMo17-1
JIS	-
AISI	-
BS	-

### APPLICATIONS

1.4122 is used in various applications, including industrial equipment, pump and valve components, cutlery, blades, and some automotive components where a combination of corrosion resistance and mechanical strength is required.

### HEAT TREATMENT

1.4122 is supplied in annealed +A and +QT conditions.

### Mechanical Values for 1.4122 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 Rm Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
<60	+A	280	-	Max 900	-	-	-	-
60 < t160	+QT 750	-	550	750 to 950	12	-	20/14	-

# 1.4122

**Mechanical Values for 1.4122 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 <sub>m</sub> Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R <sub>m</sub> Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
≤10	1000	340	+QT 750	650	800 to 1050	8	-	-	-
10 <t ≤ 16	1000	340	+QT 750	600	800 to 1050	98	-	-	-
16 <t ≤ 40	980	310	+QT 750	550	800 to 1000	10	-	20	-
40 <t ≤ 63	930	290	+QT 750	550	750 to 950	12	-	20	-
63 <t ≤ 160	900	280	+QT 750	550	750 to 950	12	-	14	-

## PRODUCTS OFFERED

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