

1.4923

X22CrMoV12-1	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Ni	%V
	0.18	-	0.40	-	-	11.0	-	0.80	0.30	0.25
	0.24	0.50	0.90	0.025	0.015	12.5	-	1.20	0.80	0.35

STEEL PROPERTIES

1.4923, also known as X22CrMoV12-1, is a high-alloyed martensitic stainless steel designed for high-temperature and high-pressure applications.

EQUIVALENT GRADES

EN 10088-3	1.4923	X22CrMoV12-1
AFNOR	Z21CDV12	
JIS	-	
AISI	-	
BS	762	

APPLICATIONS

1.4923 is used in applications where high strength and resistance to thermal and mechanical stresses are required. This includes components in high-temperature and high-pressure environments, such as steam turbines and power generation equipment.

HEAT TREATMENT

1.4923 is supplied in annealed +A, quenched tempered +QT conditions.

Mechanical Values for 1.4923 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	245	-	Max 900	-	-	-	-
<= 160	+QT800	-	650	650 to 850	15	-	25	-

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**Mechanical Values for 1.4923 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	880	305	+QT800	500	500 to 880	9	-	-	-
10<t<=16	880	305	+QT800	500	500 to 880	9	-	-	-
16<t<=40	800	280	+QT800	450	850 to 930	10	-	25	-
40<t<=63	760	260	+QT800	450	850 to 930	10	-	25	-
63<t<=160	730	245	+QT800	450	850 to 930	15	-	25	-

PRODUCTS OFFERED

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