

1.4003 410L

X2CrNi12	%C	%Si	%Mn	%P	%S	%N	%Cr	%Cu	%Mo	%Nb	%Ni
	-	-	-	-	-	-	10.5	-	-	-	0.30
	0.030	1.00	1.50	0.040	0.030	0.030	12.5	-	-	-	1.00

STEEL PROPERTIES

Type 1.4003 410L stainless steel is a utility ferritic stainless steel, often used in place of mild steel. It offers the benefits of more highly alloyed stainless steels such as strength, corrosion and abrasion resistance, durability and low maintenance.

EQUIVALENT GRADES

EN 10088-3	1.4003	X2CrNi12
AFNOR	CLC4003	
ASTM	UNSS40977	
JIS	SUS 410L	
AISI	410L	

APPLICATIONS

1.4003 410L is typically used for Vehicle Frames/chassis, Rail car hoppers, Chimneys & Ducting, Walkways, mechanical engineering, sugar industry, mining industry, transport industry.

HEAT TREATMENT

1.4003 410L is supplied in annealed +A.

Mechanical Values for 1.4003 410L at room temperature in EN 10088-3: 2014 inconditions 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	-	-	-	-	-	-
100	-	-	260	450 to 600	20	-	-	-

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Mechanical Values for 1.4003 410L Bright Bars at room temperature in EN 10088-3:2014 in conditions 1C,1E,1D,1X,1G & 2D

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	950	305	+A	240	900 to 1150	7	-	-	-
10<t<=16	950	305	+A	240	900 to 1150	7	-	-	-
16<t<=40	900	280	+A	220	850 to 1100	8	-	12	-
40<t<=63	840	260	+A	215	850 to 1000	8	-	12	-
63<t<=160	800	245	+A	210	850 to 1000	10	-	12	-

PRODUCTS OFFERED

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