



STANDARD

CLASSIFICATION

FEATURES

UNI EN 10263-2: 2017

Heat treatable steels, alloy steels and free-cuttings steels - non alloy steels for quencing and tempering

Non Alloy Quality Steel

C10C - Nr. 1.0214

Steels with average 0,25% = < C < 0,55% or 500 MPa
=< Rm < 700 MPa

CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,08 to 0,12	0,10 max	from 0,30 to 0,50	0,025 max	0,025 max	-	-
Mo	Ni	B	Cu	Al	Pb	
-	-	-	-	from 0,020 to 0,060	-	

MECHANICAL PROPERTIES

Diameter		As Hot Rolled (+U) or Rolled and peeled (+U +PE)		Annealed (+AC) or Annealed + Peeled (+AC +PE)		Cold Drawn (+U +C)		Cold Drawn and Annealed (+U +C +AC)		Cold Drawn then Annealed and Skin passed (+U +C +AC + LC)		Annealed and Cold Drawn (+AC +C)	
from	to	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min
2	5	-	-	-	-	-	-	370	72	410	68	-	-
5	10	430	60	380	70	520	58	360	72	400	68	470	63
10	40	430	60	380	70	510	58	360	72	400	68	460	63
40	100	430	60	380	70	-	-	-	-	-	-	-	-

In case of specific needs, contact our sales offices to evaluate feasibility and agree on the values of Rm.

EQUIVALENT STEEL GRADES

EUROPE (EN)	GERMANY (DIN, WNr)	FRANCE (AFNOR)	ITALY (UNI)	CHINA (GB)	FINLAND (SFS)	INTERN (ISO)
C10C	QST36-3	XC10FF	CB10FF	ML10AI	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
1012	SWCH10	-	-	-	-	

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