

	C10 Non-alloy steel for general purposes	(W. NR. 1.0301)
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CHEMICAL COMPOSITION: (heat analysis according to the EN 10277-2:2008 standard)

	C %	Si %	Mn %	P %	S %
FROM	0,07	-	0,30	-	-
TO	0,13	0,40	0,60	0,045	0,045

***MECHANICAL FEATURES: (according to the EN 10277-2:2008 standard)**

Thickness mm	rolled + peeled rolled (+SH)		Cold drawn (+C)		
	hardness HB	Rm (MPa)	R _{p0,2} minimum values (MPa)	Rm (MPa)	A ₅ % minimum values
≥5≤10			350	460 - 760	8
>10≤16			300	430 - 730	9
>16≤40	92 - 163	310 - 550	250	400 - 700	10
>40≤63	92 - 163	310 - 550	200	350 - 640	12
>63≤100	92 - 163	310 - 550	180	320 - 580	12

* Delivery condition: as rolled

PROPERTIES :

Weldability:

It is a soft carbon-steel, easily cold machinable and weldable without any particular precautions.

Improved machinability:

Upon request it can be supplied with improved machinability with Pb (lead) addition, for example Pb=0,15%÷0,35%

Notes:

CORRESPONDENCE WITH OTHER STANDARDS (purely as an indication) :

UNI 7846 C10	DIN 17210 CK10	AFNOR 35-551 XC10
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