



**C10R**  
Special non-alloy case-hardening steel

(W. NR. 1.1207)

**CHEMICAL COMPOSITION:** (heat analysis according to the EN 10277-4 standard)

	C %	Si %	Mn %	P %	S %
FROM	0,07	-	0,30	-	0,020
TO	0,13	0,40	0,60	0,035	0,040

**\*MECHANICAL FEATURES:** (according to the EN 10277-4 standard)

Thickness mm	rolled + peeled rolled (+SH)		cold drawn (+C)		
	hardness HB	Rm (MPa)	R <sub>p0,2</sub> minimum values (MPa)	Rm (MPa)	A <sub>5</sub> % 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 ):**

<b>UNI 7846</b> C10	<b>DIN 17210</b> CK10	<b>ISO 683-11</b> C10	<b>AFNOR 35-551</b> XC10
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