

	11SMn30 High machinability steel not destined to heat treatment	(W. NR. 1.0715)
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CHEMICAL COMPOSITION: (heat analysis according to the EN ISO 683-4:2018 standard)

	C %	Si %	Mn %	P %	S %
FROM	-	-	0,90	-	0,27
TO	0,14	0,05	1,30	0,11	0,33

***MECHANICAL FEATURES:** (according to the EN 10277:2018 standard)

Thickness mm	rolled + peeled rolled (+SH)		Cold drawn (+C)		
	HB hardness max.	Rm (MPa)	Rp _{0,2} minimum values (MPa)	Rm (MPa)	A ₅ % minimum values
≥5≤10			440	510 - 810	6
>10≤16			410	490 - 760	7
>16≤40	169	380 - 570	375	460 - 710	8
>40≤63	169	370 - 570	305	400 - 650	9
>63≤100	154	360 - 520	245	360 - 630	9

* Delivery condition: as rolled

PROPERTIES :

Machinability:

This steel grade is marked by a good machinability on machine tools and by an easy fragmentation of chips.

Weldability:

Due to the high sulphur and phosphorus content free-cutting steels not destined to heat treatment are not generally recommended for welding.

Notes:

CORRESPONDENCE WITH OTHER STANDARDS (purely as an indication) :

UNI 4838 CF 9 SMn 28	DIN 1651 9SMn28	AFNOR 35-561 S 250	EN 10277-3:2008 11SMn30	EN 10087 11SMn30
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