



# 11SMn37

High machinability steel not destined to heat treatment

(W. NR. 1.0736)

## CHEMICAL COMPOSITION: (heat analysis according to the EN ISO 683-4:2018 standard)

	C %	Si %	Mn %	P %	S %
FROM	-	-	1,00	-	0,34
TO	0,14	0,05	1,50	0,11	0,40

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

Thickness mm	Rolled + peeled rolled (+SH)		Cold drawn (+C)		
	HB hardness max.	Rm (MPa)	Rp <sub>0,2</sub> minimum values (MPa)	Rm (MPa)	A <sub>5</sub> % 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 ) :

<b>UNI 4838</b> CF 9 SMn 36	<b>DIN 1651</b> 9SMn36	<b>AFNOR 35-561</b> S 300	<b>EN 10277-3:2008</b> 11SMn37	<b>EN 10087</b> 11SMn37
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