



# 36SMnPb14

High machinability steel for direct hardening

(W. NR. 1.0765)

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

	C %	Si %	Mn %	P %	S %	Pb %
FROM	0,32	-	1,30	-	0,10	0,15
TO	0,39	0,40	1,70	0,06	0,18	0,35

## \*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			500	660 - 960	6
>10≤16			440	620 - 920	6
>16≤40	219	560 - 750	390	600 - 900	7
>40≤63	216	560 - 740	360	580 - 840	8
>63≤100	216	550 - 740	340	560 - 820	9

\* Delivery condition: as rolled

## PROPERTIES :

### Machinability

This steel grade generally shows a quite good machinability on machine tools; machinability decreases with the increase of carbon, silicon and manganese content.

### Weldability

Due to the high sulphur and phosphorus content free-cutting steels for direct hardening are not recommended for welding.

### Notes

## CORRESPONDENCE WITH OTHER STANDARDS ( purely as an indication ) :

<b>UNI 4838</b> CF 35 SMnPb 10	<b>AFNOR 35-562</b> 35 MF 6 +Pb	<b>EN 10087</b> 36SMnPb14	<b>EN 10277-3:2008</b> 36SMnPb14
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