

	16MnCr5 Special alloy case-hardening steel	(W. NR. 1.7131)
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CHEMICAL COMPOSITION: (heat analysis according to the EN ISO 683-3:2022 standard)

	C %	Si %	Mn %	P %	S %	Cr %	Cu%
FROM	0,14	-	1,00	-	-	0,80	-
TO	0,19	0,40	1,30	0,025	0,035	1,10	0,40

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

Thickness mm	Soft annealed* + peeled rolled (+A +SH)	Soft annealed* + cold drawn (+A+C)
	Hardness maximum values HB	Hardness maximum values HB
≥5≤10	-	260
>10≤16	-	250
>16≤40	207	245
>40≤63	207	240
>63≤100	207	240

* Delivery condition: subjected to a softening treatment according to the maximum hardness prescription.

PROPERTIES :

Weldability:

It is a MnCr alloy steel, easily hot machinable and weldable.

Hardenability:

It has a low hardenability and therefore it can show good core features till thicknesses of about 20 mm.

Notes :

CORRESPONDENCE WITH OTHER STANDARDS (purely as an indication) :

UNI 7846 16MnCr5	DIN 17210 16MnCr5	EN 10084:08 16MnCr5	AFNOR 35-551 16MC5
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