(W.NR.1.7131)

16MnCr5

Special alloy case-hardening steel

TUYPER

CHEMICAL COMPOSITION

(Heat analysis according to the EN 10084 standard).

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

*MECHANICAL FEATURES

(according to the EN 10277-4 standard).

Thickness mm	Soft annealed*+ peeled rolled (+A +SH)	Soft annealed* + cold draw (+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 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	DIN 17210	ISO 683-11	AFNOR 35-551
16MnCr5	16MnCr5	16MnCr5	16MC5