



QUALITY	20MnCr5 - 20MnCrS5	W. NR. 1.7147-1.7149
REFERENCE NORM HOT ROLLED STEEL PRODUCTS		ISO 683-3
REFERENCE NORM BRIGHT STEEL PRODUCTS		UNI EN 10277

CHEMICAL COMPOSITION (%)

	C	Si	Mn	P (max.)	S (max)	Cr (max)	Cu (max)
20MnCr5	0,17 ÷ 0,22	0,15 ÷ 0,40	1,10 ÷ 1,40	0,025	0,035	1,00 ÷ 1,30	0,40
20MnCrS5					0,020 ÷ 0,040		

MECHANICAL PROPERTIES HOT ROLLED STEEL PRODUCTS (ISO 683-3)

(+A) ANNEALED		(+N) NORMALIZED	
Hardness (HBW)			
Max	Min	Max	Min
217	140	201	140

MECHANICAL PROPERTIES BRIGHT STEEL PRODUCTS (UNI EN 10277)

Size (mm)	(+A +SH) ANNEALED + PEELED	(+A +C) ANNEALED + COLD DRAWN
	Hardness (HBW) Max.	
5 ≤ t ≤ 10		270
10 < t ≤ 16		260
16 < t ≤ 40	217	255
40 < t ≤ 63	217	250
63 < t ≤ 100	217	250

Jominy test values HRC (ISO 683-1)

Distance from ends mm	1,5	3	5	7	9	11	13	15	20
MAX	49	49	48	46	43	42	41	39	37
MIN	41	39	36	33	30	28	26	25	23

Distance from ends mm	25	30	35	40
MAX	35	34	33	32
MIN	21			

Indicative values based on current regulations.