

Quality	20MnCr5
According to Standard	EN 10084 : 1998
Number	1.7147



KRANTI INDUSTRIAL
METAL SUPPLIER LLP

Comparable Standards	EN	W.N.	Finland	Afnor	Italy
	20MnCr5	1.7147	510	20MC5	20MnCr5

Chemical Analysis	C %	Si % max	Mn %	P% max	S%	Cr %
	0.17 to 0.22	0.40	1.10 to 1.40	0.035	≤ 0.035	1.00 to 1.30
	Mo %	Ni %	B			
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Hot Work and Heat Treatment Temperatures

End quench test Quenching ²⁾ °C	Carburizing temperature ³⁾ °C	Core-hardening temperature ^{4),5)} °C	Case-hardening temperature ^{4),5)} °C	Tempering ⁶⁾ °C
870	880 to 980	860 to 900	780 to 820	150 to 200

Mechanical Properties at Room Temperature

Mechanical Properties for the ruling section with a diameter)d) or for flat products thickness
(f) of

R _e min. MPa ^c	R _m	A min. %	Z min. %	KV ^b min. J
-	-	-	-	-

Hardness Requirements for Products Delivered in the Conditions 'treated to improve shearability' (+S), 'annealed to maximum hardness requirements' (+A), 'treated to hardness range' (+TH), or 'treated to ferrite - pearlite structure and hardness range' (+FP)

Brinell Hardness in the Condition					
+S max.	+A max.	+TH min. max.		+FP min. max.	
255	217	170	217	152	201