

Quality	16MnCr5
According to Standard	EN 10084 : 1998
Number	1.7131



Comparable Standards	EN	W.N.	B.S.	Afnor	Italy / Spain	
	16MnCr5	1.7131	590M17	16MC5	16MnCr5	
Chemical Analysis	C %	Si % max	Mn %	P% max	S%	Cr %
	0.14 to 0.19	0.40	1.00 to 1.30	0.035	≤ 0.035	0.80 to 1.10
	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

Re 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		+FP	
		min.	max.	min.	max.
¹⁾	207	156	207	140	187