

WN 1.7147 or DIN 20MnCr5

1. Chemical Composition

C	Si	Mn	P	S	Cr
0.17-0.22	≤ 0.4	1.1-1.4	≤ 0.035	≤ 0.035	1.0-1.3

2. Mechanical Properties

Yield stress (Mpa)	UTS (MPa)	Elongation (%)	A (%)	Impact E (J)	Hardness (HB)
Min 550	750-1400	Min 7	-	Min 20	Max 255

3. Heat Treatment

Row	Heat treatment type	Temp. Range °C
1	Normalizing	840-870
2	Annealing	650-700
3	Quenching	860-900
4	Tempering	150-200
5	Hot Work	850-1150

4. Applicable Standards

EU EN	USA AISI/SAE	Japan JIS	France AFNOR	England BS	Russia GOST
20MnCr5	4820	-	20MC5	-	-
Italy UNI	China GB	Sweden SS	Poland PN	Czechia CSN	Inter ISO
20MnCr5	20CrMn	-	20HG	14221	20MnCr5