

NC6/1.2063/145CR6



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NAZWA GATUNKU: NC6/1.2063/145CR6

NAZWA: COLD WORK TOOL STEEL

NORM: PN-86/H-85023

**APPLICATION**

Steel susceptible to tools for cold drawn pipes, small and medium sized punching and blanking dies, rollers adjusted for sheet metal processing, thread cutting tools, wood tools and measuring instruments, reamers.

**CHEMICAL COMPOSITION:**

C	Si	Mn	P	S	Cr	Mo	W	V	Co	Ni
1,30-1,45	0,15-0,40	0,40-0,70	Max 0,030	Max 0,030	1,30- 1,65	-	-	0,10- 0,25	-	-

**MECHANICAL PROPERTIES:**

Hardness after	Tempering °C	Symbol	Value
Soft annealing	-	HB	≤248
Quenching with 820 °C in oil	-	HRC	62
Quenching with 820 °C in oil and tempering	150	HRC	
	180	HRC	60
	200	HRC	61
	250	HRC	59
	300	HRC	56

**TECHNOLOGICAL TREATMENT PROCESSES:**

Technological treatment processes		Possible application	Temperature, °C	
Hot forming	Forging	+	1000-850	
	Rolling	+	1000-850	
Treatment	Heat treatment	Quenching	+	810-830
		Tempering	+	150-260
	Precipitation strengthening	Supersaturation	-	-
		Ageing	-	-
	Soft annealing	Above A <sub>c1</sub>	+	770-790
		Below A <sub>c1</sub>	+	690-710
Thermochemical treatment	Nitriding	-	-	
	Other	-	-	

**INTERNATIONAL STEEL GRADES:**

ISO		Czech Republic		Russia	
-	-	19422	CSN 419422	12X1	GOST 5950-73
US		Japan		China	
-	-	-	-	-	-