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Nazwa gatunku: N10E/1.1545/C105U

Nazwa: NON-ALLOYED COLD WORK TOOL STEEL

NORM: PN-84/H-85020

APPLICATION

Steel susceptible to hand operated metal cutting tools, steel files, metal working tools (with a low machinability), metal tools for millstone and grindstone dressing, knife sharpening tools, clamp rings for pipes, paper knives and engraving tools.

CHEMICAL COMPOSITION:

C	Si	Mn	P	S	Cr	Mo	W	V	Cu	Ni
0,95-1,04	0,15-0,30	0,15-0,30	Max 0,020	Max 0,020	Max 0,15	-	-	-	Max 0,20	Max 0,20

MECHANICAL PROPERTIES:

Hardness after	Tempering °C	Symbol	Value
Soft annealing	-	HB	Max. 197
Quenching with 760-780 °C in water	-	HRC	62

Technological treatment processes:

Technological treatment processes	Possible application	Temperature, °C	
Hot forming	Forging	+	1000-800
	Rolling		

Treatment	Heat treatment	Quenching	+	760-780
		Tempering	+	180-300
	Annealing			600-700
	Soft annealing	Above A_{c1}	+	730-760
		Below A_{c1}	+	680-710
Thermochemical treatment	Nitriding		-	-
	Other		-	-