

N8E (1.1525) N9E (1.1830)**stock sizes [mm]**

round bars

from Φ 12 mm to Φ 200 mm diameter

flat bars and sheets

from 10 to 60 mm thickness and 510 mm width

Description:

shallow hardening carbon tool steel

Application:

punches, taps, dies, woodworking and metal working tools, pressing and extruding tools, forging dies and rolls

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,85-0,94	0,15-0,3	0,15-0,3	max 0,025	max 0,025	0,15	max 0,2	-	-	-	-	max 0,2

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
N9E	1.1830	CT90	W1-8 1/2A	U8GA-1(2)	C85W(U)

Processes

welding	NO	
forging	YES	
rolling	YES	
nitriding	NO	
hardening	YES	temp. 760 - 780 [°C] oil
tempering	YES	temp. 180 - 300 [°C]

Hardness

after toughening	62 HRC
flat bars and sheets	195 HB