

NZ3 (1.2550)
stock sizes [mm]

round bars

 from Φ 12 mm to Φ 252 mm diameter

flat bars and squares

from 30 mm to 300 mm width

Description:

oil hardening cold work tool steel, with high ductility, wear resistant, with significant durability and impact resistance of a blade

Application:

punches, cold chisels, dies, knives for cutting wood and metals, bending dies, woodworking tools, guillotine shear blades, chisels for pneumatic jack hammers, shear blades

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,5-0,6	0,15-0,45	0,8-1,1	max 0,03	max 0,03	0,9-1,2	max 0,35	max 0,2	1,7-0,3	0,15-0,3	-	max 0,35

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
NZ3	1.2550	55WCrV8	~S1	~6HW2S	K455

Processes

welding	NO	
forging	YES	
rolling	YES	
nitriding	NO	
hardening	YES	temp. 900 - 920 [°C] oil
tempering	YES	temp. 200 - 320 [°C]

Hardness

after toughening	57 HRC
after softening	255 HB