

W.Nr. 1.2080
stock sizes [mm]

round bars

 from Φ 41 mm to Φ 503 mm diameter

flat bars and squares

from 100 mm to 500 mm width

Description:

ledeburitic chromium cold work tool steel; with very small hardening deformations, very wear resistant, less resistant to strong impacts

Application:

drawing dies, broaching rings, blanking dies, taps, tools for shearing and cutting metal sheets, paper and plastic, extrusion dies and punches, tools for wood and stone working, rolls and rollers for cold rolling

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
1,8-2,1	0,15-0,45	0,15-0,4	max 0,03	max 0,03	11-13	max 0,35	max 0,2	max 0,2	max 0,15	-	max 0,35

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
NC11	1.2080	X210Cr12	~D3	H12	K100 / Cr12

Processes

welding	NO	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 980 - 1000 [°C] oil
tempering	YES	temp. 220 - 520 [°C]

Hardness

after toughening	62 HRC
after softening	255 HB