

**1.2738**

**stock sizes [mm]**

flat bars, squares; blocks

to 1000 mm width and 600 mm thickness; cut to required size (toughened to 30 HRC)

**Description:**

heat treated steel to reach approx. hardness of 30 HRC, good machinability, good for texturing, good polishability, high through hardenability due to nickel content

**Application:**

large injection moulds, large bodies of plastic moulds and pressure moulds, where high strength of the core is required

**Chemical composition [%]**

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,35-0,45	1,3-1,6	0,2-0,4	max 0,035	max 0,035	1,8-2,1	0,9-1,2	0,15-0,25	-	-	-	-

**Equivalents**

PN	W. nr	EN	AISI	Russia (GOST)	Other
-	1.2738	40CrMnNiMo8-6-4	P20+Ni	-	M238, Impax

**Processes**

nitriding	TAK	
hardening	TAK	temp. 840 - 870 [°C]
tempering	TAK	temp. 500 - 650 [°C]

**Hardness**

after toughening	51 HRC
after softening	235 HB