

WCL (1.2343)	stock sizes [mm]
plates	to 1000 mm width and 300 mm thickness
round bars	from Φ 10 mm to Φ 603 mm diameter
flat bars and squares	from 40 mm to 600 mm width

Description:

hot work tool steel, with good ductility, good thermal conductivity, crack resistant in high temperatures, resistant to cooling down with water, high hardenability and resistance to tempering during work, good polishability

Application:

moulds for pressure die casting, die inserts, shears and hot cutting guillotine shears, components of presses and dies for light metal stamping, plastic mould inserts

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,32-0,42	0,2-0,5	0,8-1,2	max 0,03	max 0,03	4,5-5,5	max 0,35	1,2-1,5	max 0,3	0,3-0,5	max 0,3	max 0,3

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
WCL	1.2343	X37CrMoV51	H11	4Ch5MFS	W300

Processes

welding	NO	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 980 - 1030 [°C] oil / air
tempering	YES	temp. 450 - 550 [°C]

Hardness

after toughening	56 HRC
after softening	230 HB