

4H13 (1.4034)	stock sizes [mm]
sheets	from 0,5 mm to 60 mm thickness
round bars	from Φ 3 mm to Φ 350 mm diameter
flat bars and squares	from 20 mm to 1000 mm width and to 200 mm thickness (also toughened)

Description:

Chromium martensitic steel with good corrosion resistance and good polishability

Application:

for machine parts and mould parts which must be corrosion resistant, knives, springs and tools, as well as for household products, medical tools, plastic mould inserts

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,45	0,5	0,6	max 0,04	max 0,03	13,5	-	0,5	-	0,2	-	-

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
4H13	1.4034	X46Cr13	-	40Ch13	M310, 1.2083

Processes

welding	NO	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 1000 - 1050 [°C]
tempering	YES	temp. 180 - 550 [°C]

Hardness

after toughening	54 HRC
after softening	225 HB