

18H2N2 (1.5920)

**stock sizes [mm]**

round bars

 from  $\Phi$  30 mm to  $\Phi$  250 mm diameter

**Description:**

chromium-nickel carburizing steel

**Application:**

for heavily loaded gear wheels and shafts, high speed gear transmissions and other parts subject to changing loads

**Chemical composition [%]**

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,15-0,2	0,4-0,6	0,15-0,4	0,035	0,035	1,8-2,1	1,8-2,1	-	-	-	-	-

**Equivalents**

PN	W. nr	EN	AISI	Russia (GOST)	Other
18H2N2	1.5920	18CrNi8	-	-	E220

**Processes**

welding	YES	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 840 – 870 [°C]
tempering	YES	temp. 170 - 200 [°C]

**Hardness**

after softening	220 HB
Rm	1230 – 1470 MPa
Re	830 MPa