

16HG (1.7131)	stock sizes [mm]
sheets cut to size with band saws	from 6 mm to 100 mm thickness
rolled round bars	from Φ 20 mm to Φ 450 mm diameter

Description:

Carburizing steel

Application:

for moderately loaded small sized machine parts, such as: gear wheels, worm wheels, bushings, pins, camshafts

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,14-0,19	1-1,3	0,17-0,37	max 0,035	max 0,035	0,8-1,1	max 0,3	-	max 0,2	max 0,05	-	max 0,3

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
16HG	1.7131	16MnCr5	5115	18ChG	14220

Processes

welding	YES	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 860 – 900 [°C]
tempering	YES	temp. 660 – 680 [°C]

Hardness

after softening	205 HB
Rm	830 MPa
Re	590 MPa