

18HGT
stock sizes [mm]

round bars

 from Φ 20 mm to Φ 450 mm diameter

Description:

Carburizing steel

Application:

for loaded parts with high core strength: gear wheels, shafts

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,17-0,23	0,8-1,1	0,17-0,37	max 0,35	max 0,35	1-1,3	max 0,3	-	max 0,2	max 0,05	-	max 0,3

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
18HGT	-	-	-	18ChGT	-

Processes

welding	YES	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 850 – 880 [°C]
tempering	YES	temp. 150 - 200 [°C]

Hardness

after softening	215 HB
Rm	980 MPa
Re	830 MPa