

35HGS (-----)	stock sizes [mm]
sheets	from 4 mm to 25 mm thickness
round bars	from Φ 30 mm to Φ 210 mm diameter

Description:

Toughening steel

Application:

shafts, axles, spindles, levers, vehicle axle shafts

Chemical composition [%]

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,32-0,40	0,8-1,1	1,1-1,4	max 0,035	max 0,035	1,1-1,4	max 0,3	max 0,1	max 0,2	max 0,05	-	-

Equivalents

PN	W. nr	EN	AISI	Russia (GOST)	Other
35HGS	-	-	-	35ChGS	-

Processes

welding	YES	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 860 – 880 [°C]
tempering	YES	temp. 500 – 650 [°C]

Hardness

after toughening	60 HRC
w after softening	240 HB
Rm	1620 MPa
Re	1280 MPa