



Wr.Nr.	PN	EN	GOST	AISI
-	35HGS	-	35XГC	-

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Mo	W	V	Ni
min	0.32	1.1	0.8	max.	max.	1.1	max.	max.	max.	max.
max	0.40	1.4	1.1	0.035	0.035	1.4	0.1	0.2	0.05	0.3

APPLICATION

After heat treatment (quenching) or hardening can be used to manufacture heavily loaded parts: shafts, axles, shafts, spindles, levers, vehicle driveshafts.

TREATMENT

Rolling	YES
Nitriding	YES
Hardening	860°C - 880°C
Tempering	500°C - 650°C

MECHANICAL PROPERTIES

In softened condition	max. 240 HB
In hardened condition	max. 60 HRC
In treated condition	max. 32 HRC
Tensile strength Rm	>=1620MPa
Yield strength Re	>=1280 MPa
Elongation A5 (%)	>=9
Reduction of area Z (%)	>=40
Notch work KU2 (J)	>=32

NOTE: All technical information is for reference only.