



CASE HARDENING STEEL

Wr.Nr.	PN	EN	GOST	AISI
-	18HGT	-	18XГТ	-

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	W	V	Ni	Cu
min	0.17	0.17	0.8	max.	max.	1.1	max.	max.	max.	max.
max	0.23	0.37	1.1	0.035	0.035	1.3	0.2	0.05	0.3	0.3

APPLICATION

For loaded parts with high core strength: gears, shafts.

TREATMENT

Carburising	880°C - 950°C
Carbonitriding	860°C - 930°C
Hardening I	850°C - 880°C
Annealing	660°C - 680°C
Hardening II	810°C - 830°C
Tempering	150°C - 200°C

MECHANICAL PROPERTIES

Tensile strength Rm	>=980
Elongation A5 (%)	>=9
Reduction of area Z (%)	>=50
Yield strength Re	>=830
Notch work KU2 (J)	>=64
Hardness (after softening) HB	>=217

NOTE: All technical information is for reference only.