

1.3505

100Cr6 / ŁH15

BEARING STEEL

APPLICATION

High technological quality steel for rings, production of shafts, balls, needles, raceways, tubes. Materials for the aeronautics and aerospace industries

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Mo	Cu	Al
min	0.93	0.15	0.25	maks.	maks.	1.35	maks.	maks.	maks.
max	1.05	0.35	0.45	0.025	0.015	1.60	0.10	0.30	0.05

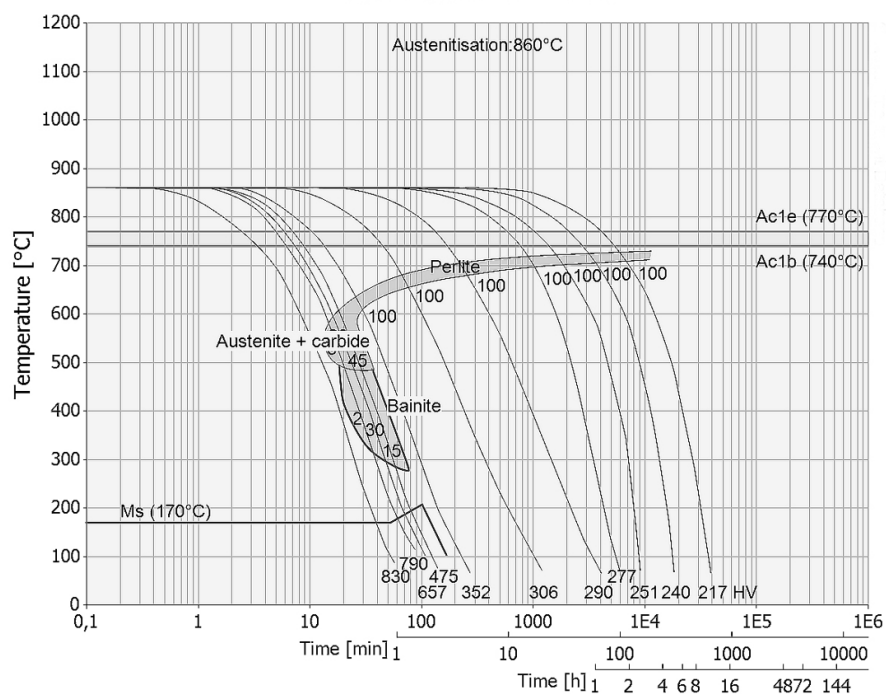
TREATMENT

Soft annealing	1210°C ± 10°C
Stress relieving	For the reference hardening either oil or salt bath; but in the event of a dispute only oil. Commonly used quenching media are air, gas or salt bath
Hardening	560°C ± 10°C (see tempering diagram)
Tempering	min. 64

MECHANICAL PROPERTIES

Condition	Treated to improve shearability (+S)	Annealed to achieve spheroidization of the carbides (+AC)	Annealed to achieve spheroidization of the carbides and cold formed (+AC +C)
Hardness [HB]	by agreement	max. 207	max. 207

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



TEMPERING DIAGRAM

