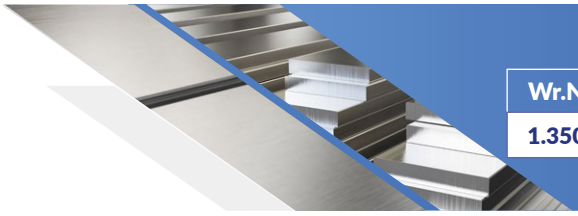
MULTISTAL
Lohmann



BEARING STEEL

Wr.Nr.	PN	EN	GOST	AISI
1.3505	ŁH15	100Cr6	ШХ15	E52100

CHEMICAL COMPOSITION

Chemical composition (in weight %)

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

APPLICATION

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

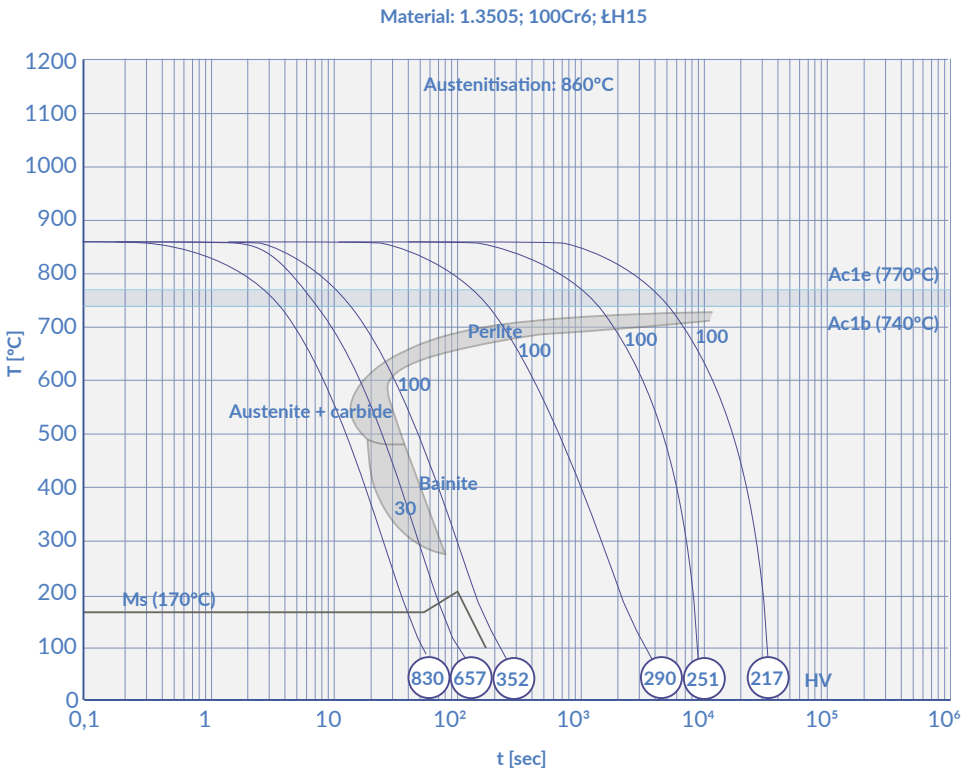
TREATMENT

Soft annealing	780 -800°C / furnace
Stress relieving	650 -680°C (only for soft delivery conditions)
Hardening	830 - 870°C, oil, hot bath 180-220°C (64 HRC)
Tempering	150 -180°C (tempering diagram)

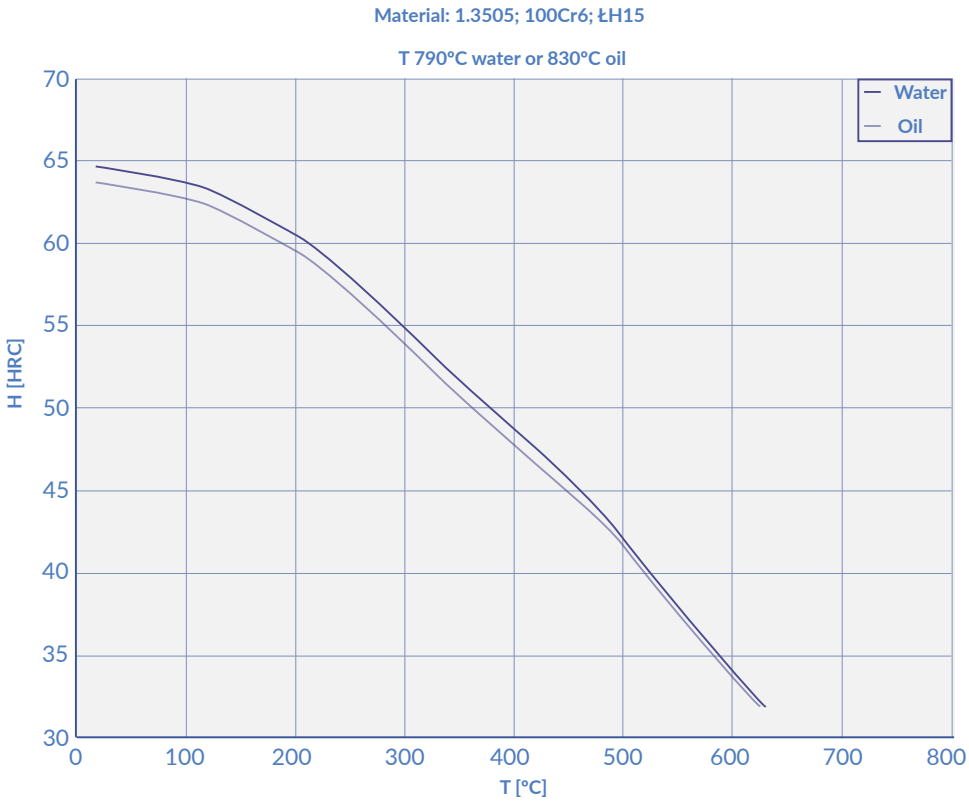
MECHANICAL PROPERTIES

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



NOTE: All technical information is for reference only.