

1.0601

C60/60

STRUCTURAL STEEL

APPLICATION

Unalloyed structural steel for components used in general mechanical and vehicle construction, exposed to high loads and friction.

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Mo	Ni	Cu
min	0.57	0.10	0.60	max	max	max	max	max	max
max	0.65	0.40	0.90	0.045	0.045	0.40	0.10	0.40	0.30

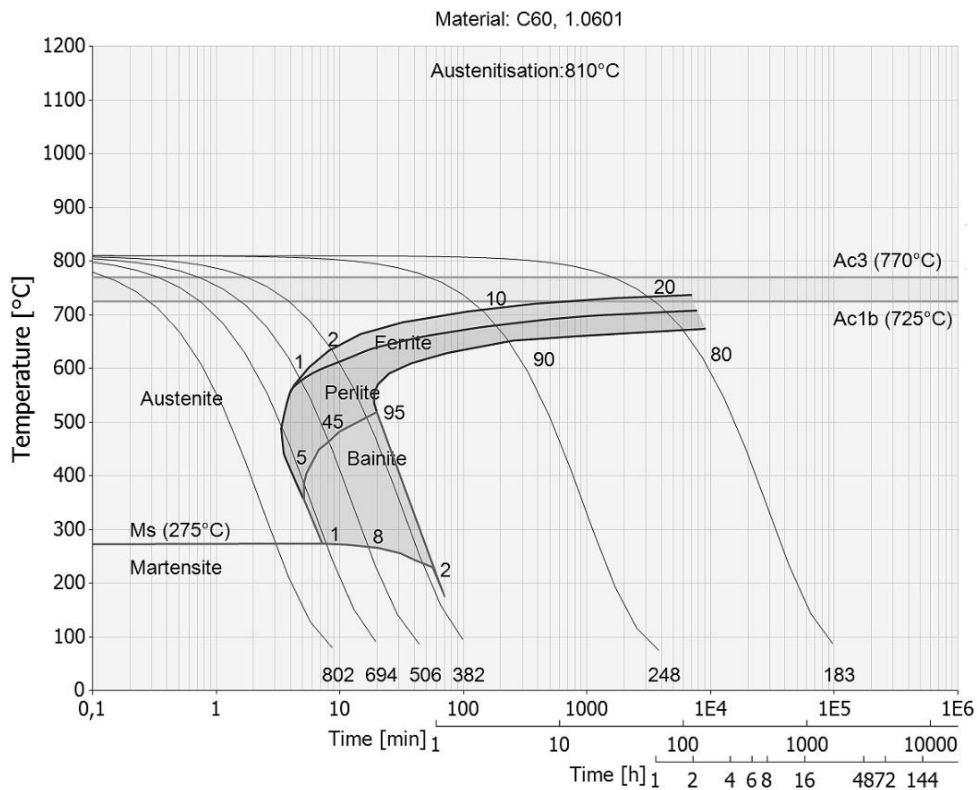
TREATMENT

Normalising	820 - 860 °C at least 30 min. austenitizing time (approx.)
Hardening	800 - 840 °C/ oil or water, at least 30 min. austenitizing time (approx.)
Tempering	550 - 660 °C min. 60 min. (approx.)
Soft annealing	710 °C

MECHANICAL PROPERTIES

Condition	Quenched and tempered (+QT)	Treated to improve shearability (+S)	Soft annealed (+A)
Hardness [HB]	Depend on thickness and diameter	Max. 225	-

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



WYKRES ODPUSZCZANIA

