

Wr.Nr.	PN	EN	GOST	AISI
1.8509	38HMJ	41CrAlMo7-10	38X2M10A	6431

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Mo	Al
min	0.38	max.	0.40	max.	max.	1.50	0.20	0.80
max	0.45	0.40	0.70	0.025	0.035	1.80	0.35	1.20

APPLICATION

For construction parts with high surface hardness. For parts subject to friction such as cylinders, bushings, camshafts, extruders, straighteners.

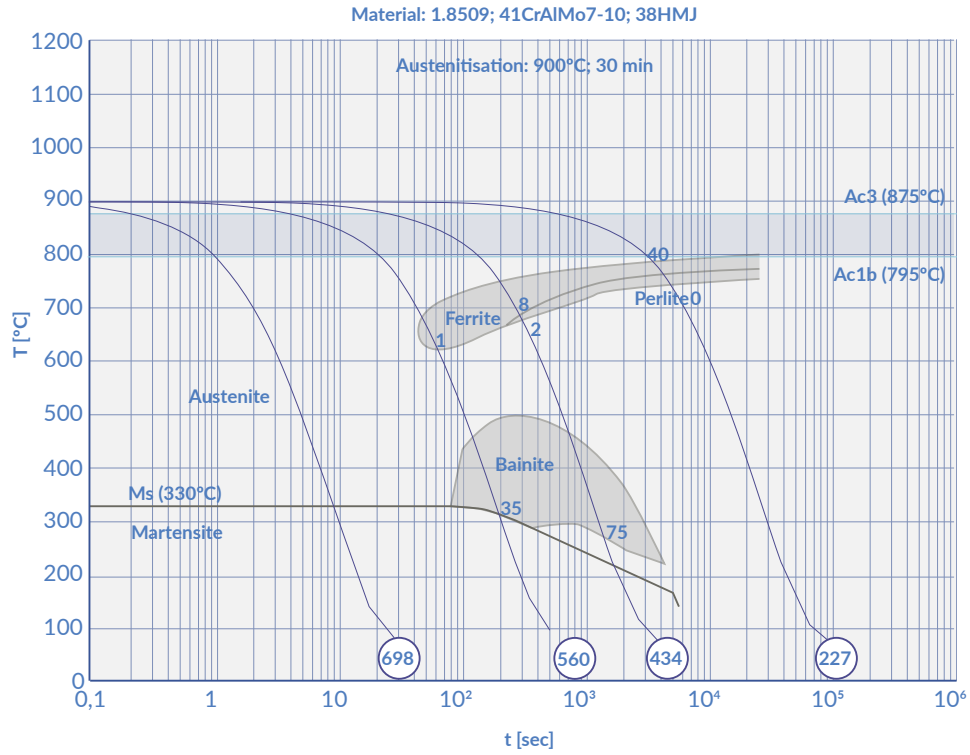
TREATMENT

Normalizing	890 -920°C / air
Soft annealing	650 -750°C / air
Hardening	870 -930°C / oil or water
Tempering	580 -700°C min. 1h
Nitriding	480 -570°C

MECHANICAL PROPERTIES

Condition	Quenched and tempered (+QT)	Soft annealed (+A)	Nitrided surface hardness (approx.)
Hardness [HB]	Depend on diameter and thickness	max. 248	-
Hardness [HV]	-	-	950

CONTINUOUS COOLING TRANSFORMATION (CCT) DIAGRAM



NOTE: All technical information is for reference only.