

Corrosion resistant knife steel (X70CrVN13)

Typical analysis

	C	Si	Mn	P	S	Cr	V	N
Typical analysis	0.68	0.35	0.45	0.010	0.001	13.5	0.10	0.11
Chemical composition	0.66-0.70	≤ 1.0	≤ 1.5	≤ 0.040	≤ 0.015	12.5-14.5	0.05-0.10	0.10-0.12

Values in weight %

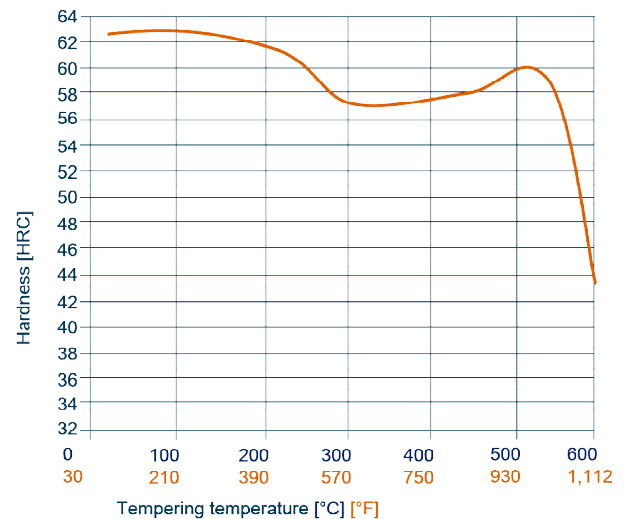
Heat treatment

Soft annealing:	750°C -850°C	furnace
Hardening:	1020°C-1080°C	oil, water
Tempering:	150°C-300°C	

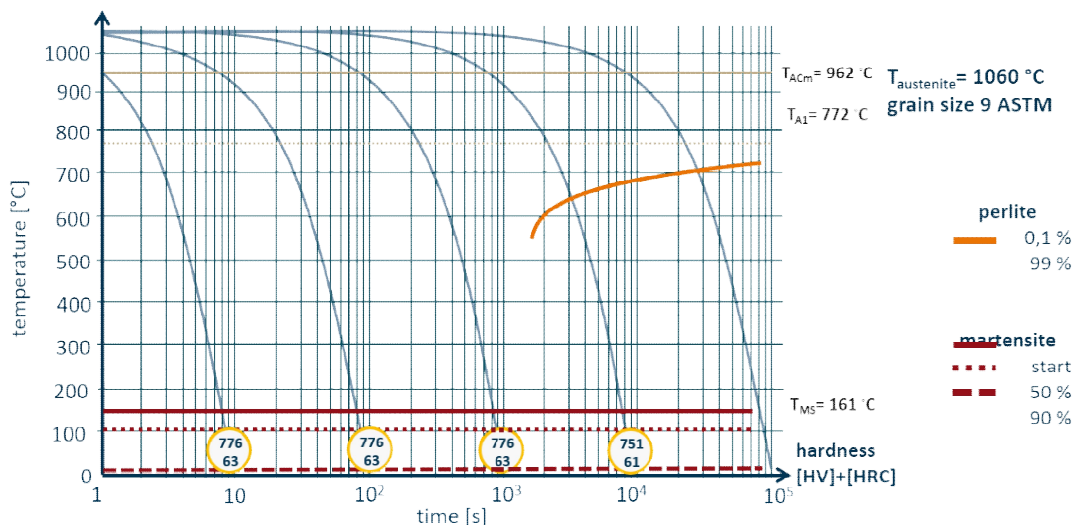
Physical Properties (Reference values for 20°C)

Density [g/cm³]	7.7
Young's modulus [Gpa]	223
Electrical resistivity [Ω·mm² / m]	0.17
Thermal conductivity [W/m·K]	50

Annealing Curve



CCT-Curve (Austenising temperature 1050°C)



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