

BUDERUS CORROSION-RESISTANT KNIFE STEEL 4037 X65Cr13

	C	Si	Mn	P	S	Cr
Typical analysis	0.65	0.35	0.65	0.020	0.001	13.00
Chemical composition as per DIN EN 10088	0.58 - 0.70	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.015	12.50 - 14.50

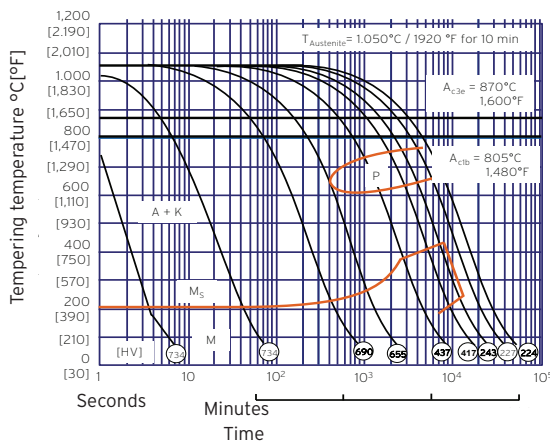
Values in weight %

HEAT TREATMENT

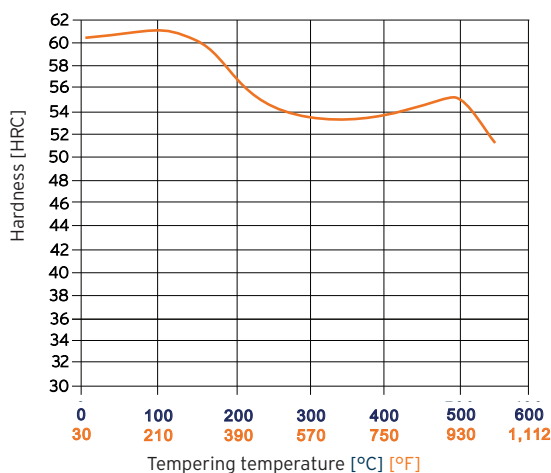
Soft annealing	730 °C - 800 °C (furnace)	1,345 °F - 1,470 °F (furnace)
Hardening	980 °C - 1,030 °C (oil, air)	1,795 °F - 1,885 °F (oil, air)
Tempering	see tempering curve	

PHYSICAL PROPERTIES (REFERENCE VALUES FOR 20 °C / 68 °F)

Density [g/cm ³]	7.7
Young's modulus [GPa]	220
Thermal expansion [10 ⁻⁶ /K]	10.2
Thermal conductivity [W/m*K]	24.6
Electrical resistance [Ω * mm ² /m]	0.59



TTT CURVE (CONTINUOUS)



TEMPERING CURVE

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