

44MnCr4-2 All

Chemical composition

Variant	Cast	Weldability		C %	Si %	Mn %	P %	S %	Ni %	Mo %	Cu %
5074	CC	CEV 0.72 _{max}	Min	0.43	0.15	0.60	0.000	0.030	0.00	0.00	0.00
		Pcm 0.53 _{max}	Max	0.48	0.40	0.80	0.040	0.500	0.30	0.10	0.35

Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Hardness
5074	+AR	Round bar	25 < 160	< 240 HB

$R_{p0.2}$ * R_{eh} ** R_{el}

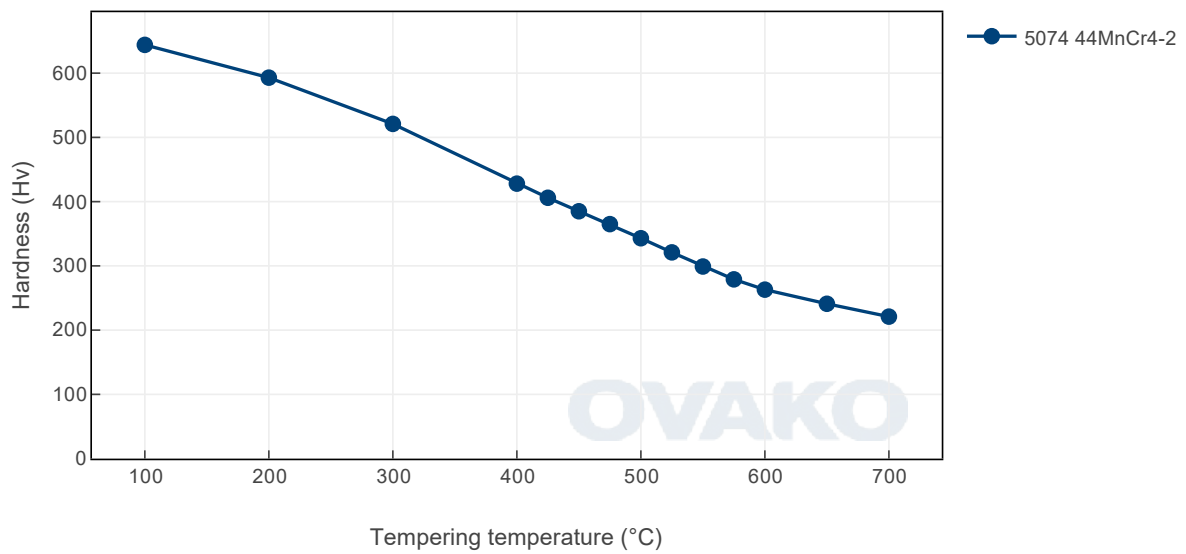
Transformation temperatures

	Temperature °C
MS	316
AC1	723
AC3	776

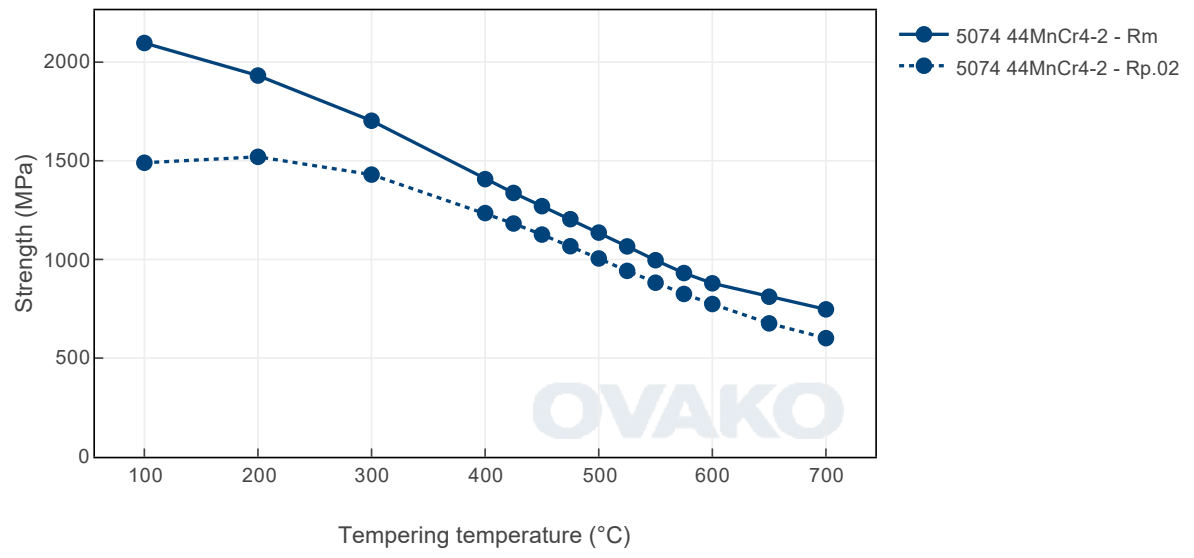
Heat Treatment Guide generated Graphs

The following graphs are generated from a theoretical model. For further info see the Heat treatment guide module. Select a specific grade version for individual display.

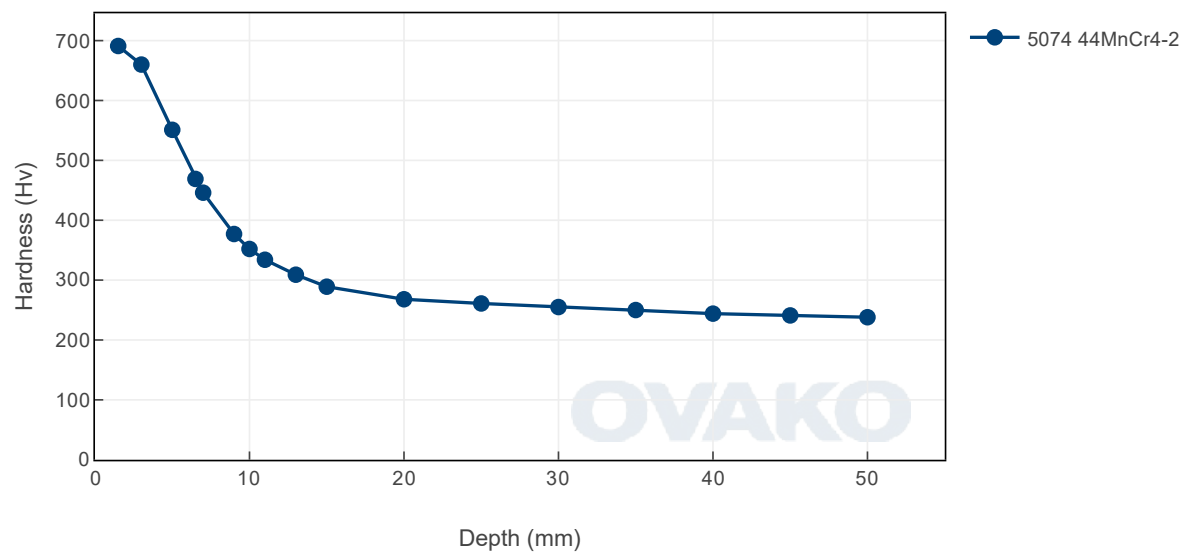
Tempering Diagram (hardness)



Tempering Diagram (strength)



Jominy



Other properties (typical values)

Youngs module (GPa)	Poisson´s ratio (-)	Shear module (GPa)	Density (kg/m ³)
210	0.3	80	7800
Average CTE 20-300°C (µm/m°K)	Specific heat capacity 50/100°C (J/kg °K)	Thermal conductivity Ambient temperature (W/m°K)	Electrical resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

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Via e-mail: info@ovako.com

Via telephone: +46 8 622 1300

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