

MATERIAL DATA SHEET

STEEL GRADE

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OVAKO

51SiMoV4-4* All

General Information

51SiMoV4-4* is an alloyed Quench and Tempering steel used in many tool like applications where there is need for high hardness and mechanical strength combined with good toughness.

Similar designations

AISI S2, UNS T41902

Chemical composition

Variant	Cast		C %	Si %	Mn %	P %	S %	Mo %	V %	Cu %
593E	IC	Min	0.48	0.90	0.30	-	-	0.40	0.100	-
		Max	0.55	1.10	0.50	0.010	0.010	0.50	0.200	0.25

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°C)	Specific heat capacity 50/100°C (J/kg °K)	Thermal conductivity Ambient temperature (W/m°C)	Electrical resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

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