

# 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 <sup>3</sup> )
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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