

## 55NiCrMoV7 All

### General Information

55 NiCr MoV7 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

55 NCDV 7, L6, 1.2714, UNS T61206

### Chemical composition

Variant	Cast	Weldability		C%	Si%	Mn%	P%	S%	Cr%	Ni%	Mo%	V%
696R	IC	CEV 1.71 <sub>max</sub>	Min	0.52	0.20	0.70	-	-	1.10	1.50	0.45	0.080
		Pcm 0.74 <sub>max</sub>	Max	0.56	0.40	0.90	0.025	0.005	1.30	1.80	0.55	0.120

# Mechanical Properties

Variant

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

## Transformation temperatures

	Temperature °C
MS	237
AC1	716
AC3	772

## Other properties (typical values)

Youngs module (GPa)	Poisson´s ratio (-)	Shear module (GPa)	Density (kg/m3)
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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