

## Technical data sheet – 57NiCrMoV7 (1.2744)

- Tool steel with very good hot toughness and high high-temperature strength

**Applications:** Dies and saddles for forging hammers, press dies for light metal moldings, extrusion tools such as punches, backings, shear blades, tough shear blades for hot and cold work

### Chemical composition

mass fraction in %				
<b>57NiCrMoV7</b>	<b>C [%]</b>	<b>Si [%]</b>	<b>Mn [%]</b>	<b>Cr [%]</b>
	0,50 - 0,60	0,15 - 0,35	0,60 - 0,80	0,90 - 1,20
	<b>P [%]</b>	<b>S [%]</b>	<b>Mo [%]</b>	<b>V [%]</b>
	max. 0,035	max. 0,035	0,70 – 0,90	0,07 - 0,12
	<b>Ni [%]</b>	<b>Cu [%]</b>		
	1,50 – 1,80			

ISO 9001: 2015 TÜV NORD certified.



## Mechanical properties

Hardness [HB 30]: <= 250 HB

Hardness: ~ 2.300 MPa

tempered at ~ 400 °C: ~ 1.720 MPa

tempered at ~ 450 °C: ~ 1.620 MPa

tempered at ~ 500 °C: ~ 1.570 MPa

tempered at ~ 550 °C: ~ 1.520 MPa

tempered at ~ 600 °C: ~ 1.370 MPa

tempered at ~ 650 °C: ~ 1.310 MPa

tempered at ~ 700 °C: ~ 1.080 MPa

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