

## Technical data sheet – 86CrMoV7 (1.2327)

- Tool steel for cold work with high wear resistance and low crack sensitivity

**Applications:** Standard cold rolled steel for rolls of all dimensions, back-up and work rolls, straightening rolls, journals, shafts, roller bodies.

### Chemical composition

mass fraction in %				
<b>86CrMoV7</b>	<b>C [%]</b>	<b>Si [%]</b>	<b>Mn [%]</b>	<b>Cr [%]</b>
	0,83 - 0,90	0,15 - 0,35	0,30 - 0,45	1,60 - 1,90
	<b>P [%]</b>	<b>S [%]</b>	<b>Mo [%]</b>	<b>Ni [%]</b>
	max. 0,030	max. 0,030	0,15 bis 0,30	
	<b>Cu [%]</b>	<b>V [%]</b>		
		0,05 - 0,15		

ISO 9001: 2015 TÜV NORD certified.



## Mechanical properties

Hardness [HB 30]: <= 250 HB

Hardness ~ 65 HRC

tempered at ~ 100 °C: ~ 64 HRC

tempered at ~ 200 °C: ~ 60 HRC

tempered at ~ 300 °C: ~ 56 HRC

tempered at ~ 400 °C: ~ 52 HRC

Achievable surface hardness (inductive/flame hardening):  
60-64 HRC in >6mm depth