

Technical data sheet – 35NiCrMo16 (1.2766)

- Tool steel for hot work, extreme toughness with high tensile strength

Applications: Hot rolled rings, dies, inner bushings, press dies

Chemical composition

35NiCrMo16	mass fraction in %			
	C [%]	Si [%]	Mn [%]	Cr [%]
	0,32 - 0,38	0,15 - 0,30	0,40 - 0,60	1,20 - 1,50
	P [%]	S [%]	Mo [%]	V [%]
max. 0,035	max. 0,035	0,20 - 0,40		
Ni [%]	Cu [%]			
3,80 - 4,30				

ISO 9001: 2015 TÜV NORD certified.



Mechanical properties

Hardness [HB 30]: <= 260 HB

Hardness ~ 56 HRC / ~ 1.770 MPa
tempered at ~ 100 ° C ~ 56 HRC
tempered at ~ 200 ° C ~ 54 HRC
tempered at ~ 300 ° C ~ 50 HRC
tempered at ~ 400 ° C ~ 46 HRC / 1.480 MPa
tempered at ~ 450 ° C ~ 1.380 MPa
tempered at ~ 500 ° C ~ 1.270 MPa
tempered at ~ 550 ° C ~ 1.180 MPa
tempered at ~ 600 ° C ~ 1.100 MPa
tempered at ~ 650 ° C ~ 890 MPa

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