

Werkstoffdatenblatt – X37CrMoV5-1 (1.2343)

- Alloyed tool steel

Applications: Tool steel for hot work, hot work tools, die casting tools, forging tools

Chemical composition (acc. DIN EN ISO 4957 (11/2018))

mass fraction in %				
X37CrMoV5-1	C [%]	Si [%]	Mn [%]	Cr [%]
	0,33- 0,41	0,80 – 1,20	0,25 – 0,50	4,80 – 5,50
	P [%] max.	S [%] max.	Mo [%]	Cu [%]
	0,030	0,020	1,10 – 1,50	-
	Ni [%]	V [%]		
	-	0,30 – 0,50		

ISO 9001: 2015 TÜV NORD certified.



Heat treatment (acc. DIN EN ISO 4957 (11/2018))

Hardening 1.010 -1.030 °C Öl
Tempering 540 - 560 °C

Mechanical properties (acc. DIN EN ISO 4957 (11/2018))

annealed	<= 229 HBW
hardened	~ 54,2 HRC
tempered at ~ 50 ° C	~ 53,7 HRC
tempered at ~ 100 ° C	~ 53,0HRC
tempered at ~ 150 ° C	~ 52,5 HRC
tempered at ~ 200 ° C	~ 52,0 HRC
tempered at ~ 250 ° C	~ 52,0 HRC
tempered at ~ 300 ° C	~ 52,5 HRC
tempered at ~ 350 ° C	~ 53,4 HRC
tempered at ~ 400 ° C	~ 54,5 HRC
tempered at ~ 450 ° C	~ 56,0 HRC
tempered at ~ 500 ° C	~ 56,0 HRC
tempered at ~ 550 ° C	~ 52,0 HRC
tempered at ~ 600 ° C	~ 46,0 HRC
tempered at ~ 650 ° C	~ 39,0 HRC