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STAHLWERK AUGUSTFEHN
Schmiede GmbH & Co. KG

Technical data sheet – X38CrMoV5-3 (1.2367)

- Alloyed tool steel

Applications: Tools for hot work, dies

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

	mass fraction in %			
X40CrMoV5-1	**C** [%]	**Si** [%]	**Mn** [%]	**Cr** [%]
	0,35 – 0,40	0,30 – 0,50	0,30 – 0,50	4,80 – 5,20
	P [%] max.	**S** [%] max.	**Mo** [%]	**Cu** [%]
	0,030	0,020	2,70 – 3,20	-
	Ni [%]	**V** [%]		
	-	0,40 – 0,60		

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

Hardening	1.030 -1.050 °C	Oil
Tempering	540 - 560 °C	

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

annealed	<= 229 HBW
hardened	~ 56,0 HRC
tempered at ~ 50 ° C	~ 55,8 HRC
tempered at ~ 100 ° C	~ 55,0HRC
tempered at ~ 150 ° C	~ 53,9 HRC
tempered at ~ 200 ° C	~ 52,5 HRC
tempered at ~ 250 ° C	~ 51,9 HRC
tempered at ~ 300 ° C	~ 51,9 HRC
tempered at ~ 350 ° C	~ 52,1 HRC
tempered at ~ 400 ° C	~ 53,0 HRC
tempered at ~ 450 ° C	~ 53,8 HRC
tempered at ~ 500 ° C	~ 54,1 HRC
tempered at ~ 550 ° C	~ 53,9 HRC
tempered at ~ 600 ° C	~ 51,8 HRC
tempered at ~ 650 ° C	~ 45,9 HRC
tempered at ~ 700 ° C	~ 35,0 HRC