

Technical data sheet – 60NiCrMoV12-4 (1.2743)

- Air-hardening high-performance tool steel for cold work

Applications: Shear blades for scrap shears, dies, embossing tools, punches, forging saddles.

Chemical composition

mass fraction in %				
60NiCrMoV12-4	C [%]	Si [%]	Mn [%]	Cr [%]
	0,55 - 0,60	0,30 - 0,50	0,50 - 0,80	1,00 - 1,30
	P [%]	S [%]	Mo [%]	V [%]
	max. 0,035	max. 0,035	0,30 - 0,40	0,07 - 0,12
	Ni [%]	Cu [%]		
	2,70 - 3,00			

ISO 9001: 2015 TÜV NORD certified.

Mechanical properties

Hardness [HB 30]: <= 235 HB

Hardness[HRC] ~ 61 HRC

tempered at ~ 100 ° C ~ 61 HRC

tempered at ~ 200 ° C ~ 59 HRC / ~ 2.110 MPa

tempered at ~ 300 ° C ~ 55 HRC / ~ 1.900 MPa

tempered at ~ 400 ° C ~ 50 HRC / ~ 1.675 MPa

tempered at ~ 450 ° C ~ 1.590 MPa

tempered at ~ 500 ° C ~ 1.505 MPa

tempered at ~ 550 ° C ~ 1.395 MPa

tempered at ~ 600 ° C ~ 1.380 MPa

tempered at ~ 650 ° C ~ 1.270 MPa

tempered at ~ 700 ° C ~ 1.180 MPa

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