AISI 440A (~X70CrMo15)



Excellence in Specialty Steel

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Material	1 78510	панон

440A ASTM S44002 UNS ~1.4109 DIN

Standards

ASTM F899

Chemical Composition Mass-%

	С	Si	Mn	Р	S	Cr	Mo	
min.	0,60	-	-	-	-	16,0	-	
max.	0,75	1,00	1,00	0,040	0,03	18,0	0,75	
Customer specific restrictions upon request								

Properties

AISI 440A is a Cr-Mo-alloyed stainless martensitic steel with good hardenability and excellent wear resistance.

Delivery Condition

annealed (+A)

Application Area

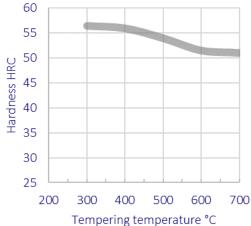
High demands on wear as well as on cutting edge retention. High surface qualities.

Typical Applications

- Surgical instruments
- ## Fuel injections systems
- Cutting tools
- Ball and roller bearings

Heat Treatment Guideline Values

	Temperature [°C]	Cooling medium
Annealing (+A)	850 - 880	Furnace, Air
Quenching and tempering (+QT)	950 - 1050 (Hardening)	Oil, gas, air, subzero treatment
	Tempering to required hardness according to tempering graph^1	Air
	60	



 1 Tempering graph: Hardening temperature 1038 °C, oil. Risk for temperature embrittlement for tempering temperatures between 400 - 580 °C

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated ultrasonic testing up to dia. 1000 mm
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

Your personal contact:

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