CORROSION RESISTANT STEEL

1.4125 / 1.4125 ESR (X105CrMo17)

Material Designation

1.4125	DIN
S44004	UNS
440 C	AISI

Standards

DIN EN 10088-3 ASTM A276/A276M

Chemical Composition Mass-%

	С	Si	Mn	Р	S	Cr	Мо	
min.	0,95	-	-	-	-	16,0	0,40	
max.	1,20	1,00	1,00	0,040	0,030	18,0	0,75	
Customer specific restrictions upon request								

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Properties

1.4125 is a high carbon Cr-Mo-alloyed stainless martensitic steel with very good wear resistance due to high hardness compared to other martensitic grades.

Resistance to corrosion is good in non-severe conditions and can be improved by surface polishing.

Available also as ESR-grade (electro-slag remelted quality).

Delivery Condition

🗱 annealed (+A) max. 285 HBW

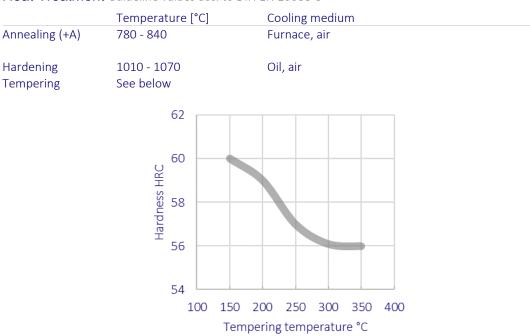
Application Area

Parts with highest demands on wear resistance in mild corrosive environments.

Typical Applications

- Pumps and valve components
- 🗱 Bearings
- Surgical instruments
- 🗱 Knives

Heat Treatment Guideline values acc. to DIN EN 10088-3



Tempering graph: hardening temperature 1040 °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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