BGH

1.4125 / 1.4125 ESR (X105CrMo17)

Excellence in Specialty Steel

Material Designation

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1.4125	DIN	DIN EN 10088-3
S44004	UNS	ASTM A276/A276N
440 C	AISI	ASTM F899

Chemical Composition Mass-%

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

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

Standards

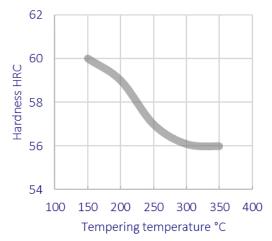
Parts with highest demands on wear resistance in mild corrosive environments.

Typical Applications

- Pumps and valve components
- **Bearings**
- Surgical instruments
- X Knives

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

	Temperature [°C]	Cooling medium
Annealing (+A)	780 - 840	Furnace, air
Hardening Tempering	1010 - 1070 See below	Oil, air



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:

BGH Edelstahlwerke GmbH

Am Stahlwerk 1 01705 Freital +49 351 646-0 www.bgh.de

