



Material Designation

1.4125	DIN
S44004	UNS
440 C	AISI

Standards

DIN EN 10088-3
ASTM A276/A276M
ASTM F899

Chemical Composition Mass-%

	C	Si	Mn	P	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

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).

Application Area

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

Typical Applications

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

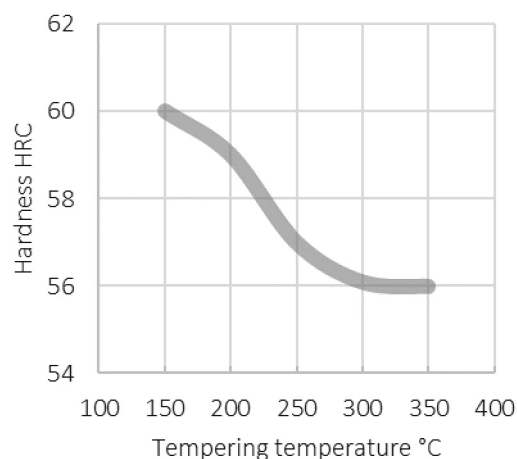
Delivery Condition

- annealed (+A) max. 285 HBW

Heat Treatment

Guideline values acc. to DIN EN 10088-3

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



Tempering graph: hardening temperature 1040 °C