

Stainless Steel

1.4125 (440C) Bar

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	440C
EN	1.4125

A martensitic stainless steel with the highest carbon content in the 400 series.

CHEMICAL COMPOSITION

EN 10088-3
1.4125 Steel

Element	% Present
Carbon (C)	0.95 - 1.20
Chromium (Cr)	16.00 - 18.00
Manganese (Mn)	0.00 - 1.00
Silicon (Si)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Molybdenum (Mo)	0.40 - 0.80
Iron (Fe)	Balance

ALLOY DESIGNATIONS

- 440C
- UNS44004
- 1.4125

SUPPLIED FORMS

- Bar

APPLICATIONS

- Rolling element bearings
- Valve seats
- High quality knife blades
- Surgical instruments
- Chisels

CHARACTERISTICS

- Excellent hardness
- High wear resistance
- Good mechanical strength
- Good fatigue resistance
- Moderate corrosion resistance

MECHANICAL PROPERTIES

EN 10088-3

Bar Up To 100mm Dia or Thickness

Property	Value
Proof Stress	448-1900 MPa
Tensile Strength	758-2030 MPa
Elongation A50 mm	4-14 %

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon. Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

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