

🍪 EXPERTISE 🌐 COLLABORATION 🚳 INTEGRITY

Stainless Steel

1.4005 (416) Bar

Datasheet Updated 05 August 2021

RANGE			
Product	Condition	Imperial	Metric
Form		Sizes	Sizes
Round	QT650	1/8" -	4mm -
Bar		6"	30mm
Round	Condition	1/8" -	4mm -
Bar	P	6"	30mm

SPECIFICATIONS	
Commercial	416
EN	1.4005

Martensitic stainless steel machining bar.

CHEMICAL COMPOSITION

EN 10088-3

1.4005 Steel

Element	% Present
Carbon (C)	0.06 - 0.15
Chromium (Cr)	12.00 - 14.00
Manganese (Mn)	0.00 - 1.50
Silicon (Si)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.15 - 0.35
Molybdenum (Mo)	0.00 - 0.60
Iron (Fe)	Balance

ALLOY DESIGNATIONS

SUPPLIED FORMS

• Bar

APPLICATIONS

- Valve parts
- Pump shafts
- Automatic screw machine parts
- Motor shafts
- Washing machine components
- Bolts and nuts
- Studs
- Gears

CHARACTERISTICS

- Excellent machinability
- Low cost
- Improved non-galling characteristics
- Poor weldability
- Poor formability
- Limited corrosion resistance

MECHANICAL PROPERTIES

EN 10088-3

Bar Up to 160mm Dia or Thickness

Property	Value
Proof Stress	450 Min MPa
Tensile Strength	650 - 850 MPa





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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