







Stainless Steel

1.4006 (410) Bar

**Datasheet Updated** 05 August 2021

#### **SPECIFICATIONS** Commercial 410 1.4006 ΕN US S41000

A general purpose martensitic stainless steel containing 11.5% chromium for good atmospheric corrosion resistance.

### **CHEMICAL COMPOSITION**

# EN 10088-3 1.4006 Steel

Element	% Present
Carbon (C)	0.08 - 0.15
Chromium (Cr)	11.50 - 13.50
Silicon (Si)	0.00 - 1.00
Manganese (Mn)	0.00 - 1.50
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.02
Nickel (Ni)	0.00 - 0.75
Iron (Fe)	Balance

#### **ALLOY DESIGNATIONS**

1.4006 is similar, but may not be a direct equivalent to:

- 410S
- UNS S41000
- 410S21

### SUPPLIED FORMS

### **APPLICATIONS**

- Gas turbines
- Steam turbines
- Petroleum fractioning structures
- Valves & pumps
- Kitchen utensils
- Fasteners

#### **CHARACTERISTICS**

- Excellent hardness when heat treated
- Suitable for use in stressed parts
- Limited corrosion resistance
- Poor weldability

## **MECHANICAL PROPERTIES**

#### EN 10088-3

#### Bar Up to 160mm Dia or Thickness

Property	Value
Proof Stress	450 Min MPa
Tensile Strength	650 - 850 MPa
Elongation A	15 Min %

#### **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.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed S online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data but will conform to all relevant and applicable standards. As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.



