

# Stainless Steel

## 1.4000 Bar



### SPECIFICATIONS

Commercial 410S

Grade 410S / 1.4000 ferritic stainless steel is a lower carbon version of grade 410. Unlike the martensitic grade 410 this grade is NOT hardenable.

### CHEMICAL COMPOSITION

EN 10088-3:2005  
1.4000 Steel

Element	% Present
Chromium (Cr)	12.00 - 14.00
Silicon (Si)	0.0 - 1.00
Manganese (Mn)	0.0 - 1.00
Carbon (C)	0.0 - 0.08
Phosphorous (P)	0.0 - 0.04
Sulphur (S)	0.0 - 0.03
Iron (Fe)	Balance

### ALLOY DESIGNATIONS

Grade 1.4000 has similarities to the following grades **but may not be a direct equivalent:**

410S  
1.4000  
UNS S41008  
403S17

### SUPPLIED FORMS

- Plate

### GENERIC PHYSICAL PROPERTIES

Property	Value
Density	7.80 g/cm <sup>3</sup>
Thermal Expansion	9.9 x10 <sup>-6</sup> /K
Modulus of Elasticity	190-210 GPa
Thermal Conductivity	24.9 W/m.K

### MECHANICAL PROPERTIES

EN 10088-3:2005  
Bar  
Up to 25mm Dia / Thickness

Property	Value
Proof Stress	230 Min MPa
Tensile Strength	400 - 630 MPa
Hardness Brinell	200 Max HB
Elongation A	20 Min %

Properties Shown above are for 1.4000 Bar

### CONTACT

**Address:** Please make contact directly with your local service centre, which can be found via the Locations page of our web site  
**Web:** [www.aalco.co.uk](http://www.aalco.co.uk)

### REVISION HISTORY

Datasheet Updated 14 November 2018

### 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 & 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.