

Stainless Steel

1.4000 Sheet and Plate

SPECIFICATIONS

Commercial	410S
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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 10088-2:2005
1.4000 Steel

Element	% Present
Chromium (Cr)	12 - 14
Manganese (Mn)	1 max
Silicon (Si)	1 max
Carbon (C)	0.08 max
Phosphorous (P)	0.04 max
Sulphur (S)	0.02 max
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 ³
Thermal Expansion	9.9 x10 ⁻⁶ /K
Modulus of Elasticity	190-210 GPa
Thermal Conductivity	24.9 W/m.K

MECHANICAL PROPERTIES

EN 10088-2:2005
Sheet
Up to 8mm Thick

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	400 - 600 MPa
Elongation A	19 Min %

Properties Shown above are for Sheet / Plate

EN 10088-2:2005
Plate
Over 8mm up to 25mm Thick

Property	Value
Proof Stress	220 Min MPa
Tensile Strength	400 - 600 MPa
Elongation A	19 Min %

Properties Shown above are for Sheet / Plate

CONTACT

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REVISION HISTORY

Datasheet Updated	14 November 2018
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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.

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