

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

Address:	Aldridge Warehouse No. 1 Wharf Approach Anchor Brook Industrial Park Aldridge Walsall WS9 8BX
Tel:	+44 (0)19 2245 3982
Email:	sales@durbinmetals.co.uk
Web:	www.durbinmetals.co.uk

REVISION HISTORY

Datasheet Updated	14 November 2018
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