

SPECIFICATIONS

Commercial	410
EN	1.4006

Grade 410 / 1.4006 is a hardenable martensitic stainless steel available in bar form only.

CHEMICAL COMPOSITION

EN 10088-3:2005 1.4006 Steel	
Element	% Present
Chromium (Cr)	11.5 - 13.5
Manganese (Mn)	1.5 max
Silicon (Si)	1 max
Nickel (Ni)	0.75 max
Carbon (C)	0.08 - 0.15
Phosphorous (P)	0.04 max
Sulphur (S)	0.02 max
Iron (Fe)	Balance

ALLOY DESIGNATIONS

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

410S
UNS S41000
410S21

SUPPLIED FORMS

- Bar

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	7.75 g/cm ³
Thermal Expansion	9.9 x10 ⁻⁶ /K
Modulus of Elasticity	300 GPa
Thermal Conductivity	24.9 W/m.K
Electrical Resistivity	0.57 x10 ⁻⁶ Ω .m

MECHANICAL PROPERTIES

EN 10088-3:2005 Bar Up to 160mm Dia or Thickness	
Property	Value
Proof Stress	450 Min MPa
Tensile Strength	650 - 850 MPa
Elongation A	15 Min %

Mechanical properties vary significantly according to heat treatment temperature.

Material in the annealed condition shall have a hardness reading of 220 HB Max and a Tensile Test reading Of 730 MPA Max.

CORROSION RESISTANCE

Moderate in non-chloride containing environments

CONTACT

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REVISION HISTORY

Datasheet Updated	13 March 2020
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