

Stainless Steel

1.4016 - 430 Stainless Steel

Datasheet Updated
18 July 2022

RANGE

Sheet Size	Finish	Thicknesses
2000mm x 1000mm	2R (BA) Finish	0.5mm -2.0mm
2000mm x 1000mm	240 Silicon Fibre Optic Coating	0.7mm - 2.0mm
2500mm x 1250mm	2R (BA) Finish	0.5mm - 2.0mm
2500mm x 1250mm	240 Silicon Fibre Optic Coating	0.7mm - 2.0mm
Tube	Finish	Dimensions
Rectangular Tube	Dull Polished	40 x 20 x 1.5mm wall
Square Tube	Dull Polished	25 x 25mm - 40 x 40mm

SPECIFICATIONS

Commercial	430
EN	1.4016
US	430

Ferritic 17% chromium stainless steel.

CHEMICAL COMPOSITION

EN 10088-2 1.4016 Steel

Element	% Present
Carbon (C)	0.00 - 0.08
Chromium (Cr)	16.00 - 18.00
Manganese (Mn)	0.00 - 1.00
Silicon (Si)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.02
Iron (Fe)	Balance

ALLOY DESIGNATIONS

Stainless steel grade 1.4016/430 also corresponds to the following designations **but may not be a direct equivalent**:

- UNS S43000
- BS 430S17
- EN60

SUPPLIED FORMS

- Bar
- Fittings & Flanges
- Strip
- Pipe
- Tube
- Sheet
- Plate

APPLICATIONS

- Low cost sinks
- Decorative trim
- White & brown Goods (washing machines, dishwashers, cookers)
- Refrigerators
- Stove element supports
- Scientific apparatus
- Fasteners
- Flue linings
- Automotive trim
- Hinges

CHARACTERISTICS

- Good corrosion resistance
- Particularly resistant to nitric acid
- Good formability
- Readily weldable
- Good machinability

MECHANICAL PROPERTIES

EN 10088-3

Bar Up to 100mm Diameter/Thickness

Property	Value
Proof Stress	250 Min MPa
Tensile Strength	400-630 MPa
Elongation A50 mm	20 Min %
Hardness Brinell	200 Max HB

EN 10088-2

Sheet Up to 8mm Thick

Property	Value
Proof Stress	260 Min MPa
Tensile Strength	450 - 600 MPa
Elongation A50 mm	20 Min %

EN 10088-2

Plate Over 8mm to 13.5mm / Thick

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	450 - 600 MPa
Elongation A50 mm	18 Min %

EN 10088-2

Plate Over 13.5mm to 25mm Thick

Property	Value
Proof Stress	240 Min MPa
Tensile Strength	430 - 630 MPa
Elongation A50 mm	20 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.

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