

## Stainless Steel // Ferritic // 1.4016 - 430

Stainless steel type 1.4016 is also commonly known as grade 430. Type 430 stainless steel combines good corrosion resistance with good formability and ductility.

It is a ferritic, non-hardenable plain Chromium stainless steel with excellent finish quality.

Grade 430 also has excellent resistance to nitric attack, which makes it well suited to use in chemical applications. The most popular applications for 430 are in domestic appliances and decorative trim.

Property data given in this document is typical for flat rolled products covered by ASTM A240/A240M. ASTM, EN or other standards may cover products sold. It is reasonable to expect specifications in these standards to be similar but not necessarily identical to those given in this datasheet.

### Alloy Designations

Stainless Steel Grade 1.4016/430 also corresponds to the following designations:

UNS S43000

BS 430S17

EN60

### Supplied Forms

■Sheet

■Strip

■Tube

■Bar

■Fittings & Flanges

■Pipe

■Plate

## DP ALLOYS data sheet stainless steel

<u>Chemical Element</u>	<u>%Present</u>
Carbon (C)	0.0 - 0.08
Chromium (Cr)	16.00 - 18.00
Manganese (Mn)	0.0 - 1.00
Silicon (Si)	0.0 - 1.00
Phosphorous (P)	0.0 - 0.04
Sulphur (S)	0.0 - 0.02
Iron (Fe)	Balance

<u>Physical Property</u>	<u>Value</u>
Density	7.75 Kg/m <sup>3</sup>
Melting Point	1425-1510 °C
Thermal Expansion	10.4 x10 <sup>-6</sup> /K
Modulus of Elasticity	200 GPa
Thermal Conductivity	23.9 W/m.K
Electrical Resistivity	0.060 x10 <sup>-6</sup> Ω .m

<u>Mechanical Property</u>	<u>Value</u>
Proof Stress	240 Min MPa
Tensile Strength	450-600 MPa
Elongation	20 %

DP Alloys

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