

## Technical Datasheet: Stainless steel type 430

### General Notes

- Material number 1.4016, DIN 36AXPB.SA, AISI number 430
- Magnetizable
- Good formability and ductility.
- It is a ferritic, non-hardenable plain Chromium stainless steel with excellent finish quality.
- Excellent resistance to nitric attack

### Composition

Component	Wt.%	Component	Wt.%	Component	Wt.%
C	0.0-0.08	Si	≤1.0	Mn	0.0-1.0
P	≤0.04	S	≤0.02	Cr	16.0-18.0

### Mechanical properties:

Density	7.75 g/cm <sup>3</sup>
Tensile strength, ultimate:	450-600 MPa
0.2% Yield stress	≥240 MPa
Modulus of elasticity	200 GPa

### Thermal properties

Coef. of lin. therm expansion:	10.4 E-6/°C	20°C-100°C
Coef. of lin. therm expansion:	11.0 E-6/°C	20°C-300°C
Specific heat capacity:	0.46 J/(g·K)	
Thermal conductivity:	23.9 W/(m·K)	

### Electrical properties

Resistivity	0.06 E-6 Ohm.m
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