

Material type

## Metal

Material name

## Stainless steel 430 | 1.4016 | X6Cr17

Process compatibility

## CNC machining

### Mechanical properties

Ultimate tensile strength	450 - 500 MPa
Yield strength	200 - 280 MPa
Young's modulus (modulus of elasticity)	200 GPa
Elongation at break	20 - 24 %

### Thermal properties

Maximum service temperature	815 - 870 °C
Thermal expansion coefficient	10.4 - 11.3 10 <sup>-6</sup> /°C
Thermal conductivity	26.1 - 26.3 W/(m·°C)

### Post treatments

Post-Processing	Cold & hot working, Annealing
Anodizing compatibility	Not suitable

### Physical properties

Corrosion resistance	Good
Magnetism	Magnetic
Weldability	Good

### Electrical properties

Electrical resistivity	60 μΩ*cm
------------------------	----------

### Common applications

Low cost sinks

Refrigerators

Stove element supports

Scientific apparatus

Fasteners

Flue linings

ZartLink is The Global First FairPrice Flex Manufacturing Platform for Future. From rapid prototyping to production, provide global clients quality parts with cheaper prices.