Stainless steel 430 | 1.4016 | X6Cr17

Stainless Steel 430 provides good corrosion resistance for decorative and appliance parts.

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 %

Physical properties

Corrosion resistance	Good
Magnetism	Magnetic
Weldability	Good

Thermal properties

Maximum service temperature	815 - 870 °C
Thermal expansion coefficent	10.4 - 11.3 10^-6/ºC
Thermal conductivity	26.1 - 26.3 W/(m·°C)

Electrical properties

Electrical resistivity	60 µΩ*cm

Post treatments

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

Common applications

Low cost sinks	

Refrigerators	
Scientific apparatus	
Fasteners	
Flue linings	
Stove element supports	

Stainless Steel 430 CNC Machining Applications & Parts

Stainless Steel 430 is a general-purpose ferritic stainless steel offering good corrosion resistance, formability, and a bright, clean appearance. It is a cost-effective alternative for applications where the properties of austenitic grades are not required.

Typical Parts We Machine from Stainless Steel 430:

- **Automotive Trim:** Decorative trim, exhaust system components, washer pump parts
- **Consumer Appliances:** Washing machine drums, dishwasher inner doors, microwave oven parts
- **Architectural & Interior Design:** Wall panels, elevator interiors, decorative strips

Our Machining Advantage:

We understand the grain structure of ferritic 430 and employ machining strategies that prevent tearing and ensure a smooth, high-quality surface finish ideal for decorative applications.

Get an Instant Quote for your custom Stainless Steel 430 parts today.