

# Stainless Steel 430 Technical Datasheet

#### **Key Features**

- Good corrosion resistance
- Good heat and oxidation resistance

## **Common Applications**

- Automotive trim and molding
- Furnace combustion chambers
- Dishwashers
- Range hoods
- Gas burners
- Gutters
- Steam iron basses and flatware
- Interior architectural applications
- Nitric acid plant equipment

#### **Material Description**

Stainless Steel 430 is a ferritic stainless steel alloy known for its good corrosion resistance, particularly in mildly corrosive environments. It offers moderate strength and formability, making it suitable for applications such as kitchen appliances, automotive trim, and decorative panels. Stainless Steel 430 is commonly used in applications where corrosion resistance and aesthetics are important, but high mechanical properties are not required.

Chemical Composition (%)											
	С	Cr	Fe	Mn	Ni	Р	Si	S			
Min.		16	79.31								
Max.	0.12	18		1.0	0.50	0.040	1.0	0.030			

#### **Mechanical Properties**

Ultimate Tensile Strength Tensile Yield Strength Hardness Elongation at Break 70,100 PSI 45,000 PSI Rockwell B89 25%

## **Physical Properties**

Density Thermal Conductivity Modulus of elasticity Melting Point 0.280 lb/in³ (7.74 g/cm³) 26.1W/m.K 29,000 KSI (200 GPa) 2,696-2,786°F (1,480–1,530 °C)

#### Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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