

AK Steel 430 Ferritic Stainless steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

AK Steel 430 combines good corrosion resistance and heat and oxidation resistance up to 1500°F with good mechanical properties. Typical consumer applications include automotive trim and molding, furnace combustion chambers, dishwashers, range hoods, gas burners, gutters, steam iron bases and flatware. Industrial applications range from interior architectural applications to nitric acid plant equipment. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-430-Ferritic-Stainless-steel.php

Physical Properties	Metric	English	Comments
Density	7.74 g/cc	0.280 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	85	85	
Tensile Strength, Ultimate	483 MPa	70100 psi	
Tensile Strength, Yield	310 MPa @Strain 0.200 %	45000 psi @Strain 0.200 %	
Elongation at Break	25 %	25 %	in 2 inches
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.78 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 0.000 - 100 °C	@Temperature 32.0 - 212 °F	
	11.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature <=538 °C	@Temperature <= 1000 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	
	@Temperature 0.000 - 100 °C	@Temperature 32.0 - 212 °F	
Thermal Conductivity	26.1 W/m-K	181 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	26.3 W/m-K	183 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	

Thermal Properties	Metric	English	Comments
Carbon, C	<= 0.12 %	<= 0.12 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	>= 79.31 %	>= 79.31 %	As Remainder
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Nickel, Ni	<= 0.50 %	<= 0.50 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000600 ohm-cm	0.0000600 ohm-cm	

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