

Outokumpu 4303 Cr-Ni Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

Good corrosion resistance with excellent drawing properties. Applications: Suitable for cold formed components where good workability is required. Fasteners, studs. Available in hot rolled plate (Quarto), hot rolled strip/sheet (CPP), cold rolled strip/sheet, cold rolled narrow strip, bar, and rod forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4303-Cr-Ni-Austenitic-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in ³	RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	570 MPa	82700 psi	Outokumpu Typical, Cold Rolled Narrow Strip; EN 10002-1
Tensile Strength, Yield	220 MPa	31900 psi	EN min., RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	250 MPa	36300 psi	Outokumpu Typical, Cold Rolled Narrow Strip; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	280 MPa	40600 psi	Outokumpu Typical, Cold Rolled Narrow Strip; EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	98.0 MPa	14200 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	127 MPa	18400 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	155 MPa	22500 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	50 %	50 %	Outokumpu Typical, Cold Rolled Narrow Strip; EN 10002-1
Modulus of Elasticity	200 GPa	29000 ksi	RT
	172 GPa	24900 ksi	
	@Temperature 400 °C	@Temperature 752 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.89 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	
	17.5 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.72 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	
Specific Heat Capacity	0.500 $\text{J}/\text{g}\cdot^{\circ}\text{C}$	0.120 $\text{BTU}/\text{lb}\cdot^{\circ}\text{F}$	RT
Thermal Conductivity	15.0 $\text{W}/\text{m}\cdot\text{K}$	104 $\text{BTU}\cdot\text{in}/\text{hr}\cdot\text{ft}^2\cdot^{\circ}\text{F}$	RT
	20.0 $\text{W}/\text{m}\cdot\text{K}$	139 $\text{BTU}\cdot\text{in}/\text{hr}\cdot\text{ft}^2\cdot^{\circ}\text{F}$	
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	17.7 %	17.7 %	
Iron, Fe	69.76 %	69.76 %	
Nickel, Ni	12.5 %	12.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000730 $\text{ohm}\cdot\text{cm}$	0.0000730 $\text{ohm}\cdot\text{cm}$	RT

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