

Outokumpu 4021 Martensitic Stainless Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel

Material Notes:

Moderate corrosion resistant stainless steel hardenable up to 1000N/mm2. Re-sulphurized steel improves machining properties. Applications: ShaftsKnivesFastenersSurgical applicationsDomestic applicationsAvailable in hot rolled strip/sheet (CPP), cold rolled narrow strip, bar, and rod forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4021-Martensitic-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	650 MPa	94300 psi	Outokumpu Typical, Annealed Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	450 MPa	65300 psi	EN min.,RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	500 MPa	72500 psi	Outokumpu Typical, Annealed Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	580 MPa	84100 psi	Outokumpu Typical, Annealed Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	365 MPa	52900 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	400 MPa	58000 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	420 MPa	60900 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	20 %	20 %	Outokumpu Typical, Annealed Hot Rolled Plate (Quarto); EN 10002-1
Modulus of Elasticity	215 GPa	31200 ksi	RT
	190 GPa	27600 ksi	
	@Temperature 400 °C	@Temperature 752 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	10.5 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.83 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	
	12.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	6.67 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	
Specific Heat Capacity	0.460 J/g- $^{\circ}\text{C}$	0.110 BTU/lb- $^{\circ}\text{F}$	RT
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	RT
	25.0 W/m-K	174 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.20 %	0.20 %	
Chromium, Cr	13 %	13 %	
Iron, Fe	86.8 %	86.8 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000550 ohm-cm	0.0000550 ohm-cm	RT

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