

Outokumpu 4439 Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

Applications: Wet corrosion resistance and general service.Available in hot rolled plate (Quarto), hot rolled strip/sheet (CPP), and cold rolled strip/sheet forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4439-Austenitic-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	640 MPa	92800 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	270 MPa	39200 psi	EN min.,RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	310 MPa	45000 psi	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	350 MPa	50800 psi	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	150 MPa	21800 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	185 MPa	26800 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	225 MPa	32600 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, Hot Rolled Plate (Quarto); 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
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Thermal Properties	Metric	English	Comments
CTE, linear	@Temperature 100 °C	@Temperature 212 °F	
	17.5 µm/m-°C	9.72 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
Specific Heat Capacity	0.500 J/g-°C	0.120 BTU/lb-°F	RT
Thermal Conductivity	14.0 W/m-K	97.2 BTU-in/hr-ft²-°F	RT
	20.0 W/m-K	139 BTU-in/hr-ft²-°F	
	@Temperature 400 °C	@Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	17.8 %	17.8 %	
Iron, Fe	65.24 %	65.24 %	
Molybdenum, Mo	4.1 %	4.1 %	
Nickel, Ni	12.7 %	12.7 %	
Nitrogen, N	0.14 %	0.14 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000850 ohm-cm	0.0000850 ohm-cm	RT

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