

Outokumpu 725LN 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) form.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-725LN-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	630 MPa	91400 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	250 MPa	36300 psi	EN min.,RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	290 MPa	42100 psi	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	320 MPa	46400 psi	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	135 MPa	19600 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	160 MPa	23200 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	195 MPa	28300 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	55 %	55 %	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Modulus of Elasticity	200 GPa	29000 ksi	RT
	170 GPa	24700 ksi	
	@Temperature 400 °C	@Temperature 752 °F	

Thermal Properties	Metric	English	Comments
	15.5 µm/m-°C	8.61 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	Comments
	17.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	9.44 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 400 °C	@Temperature 752 °F	
Specific Heat Capacity	0.440 J/g-°C	0.105 BTU/lb-°F	RT
Thermal Conductivity	12.0 W/m-K	83.3 BTU-in/hr-ft²-°F	RT
	17.0 W/m-K	118 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	25 %	25 %	
Iron, Fe	50.65 %	50.65 %	
Molybdenum, Mo	2.2 %	2.2 %	
Nickel, Ni	22 %	22 %	
Nitrogen, N	0.13 %	0.13 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000750 ohm-cm	0.0000750 ohm-cm	RT

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