

Outokumpu 4550 Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

Good corrosion resistance and weldable. Resistant to sensitization. Applications: Welded screens Furnace belts Catalytic converter mesh Available in hot rolled plate (Quarto) and rod forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4550-Austenitic-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	595 MPa	86300 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	200 MPa	29000 psi	EN min., RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	260 MPa	37700 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	290 MPa	42100 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	125 MPa	18100 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	157 MPa	22800 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	176 MPa	25500 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	45 %	45 %	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1

Component Elements Properties	Metric	English	Comments
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	17.5 %	17.5 %	
Iron, Fe	72.91 %	72.91 %	
Nickel, Ni	9.5 %	9.5 %	
Nitrogen, N	0.040 %	0.040 %	

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