

## Outokumpu 4501 Duplex Stainless Steel

Category : Metal , Ferrous Metal , Duplex , 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-4501-Duplex-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Outokumpu-4501-Duplex-Stainless-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	805 MPa	117000 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	507 MPa	73500 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	530 MPa	76900 psi	EN min.,RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	400 MPa	58000 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	450 MPa	65300 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	35 %	35 %	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
CTE, linear	13.0 µm/m-°C	7.22 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	14.5 µm/m-°C	8.06 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
Specific Heat Capacity	0.500 J/g-°C	0.120 BTU/lb-°F	RT

Thermal Properties	Metric	English	Comments
	20.0 W/m-K	139 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 400 °C	@Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	25 %	25 %	
Copper, Cu	0.50 %	0.50 %	
Iron, Fe	62.91 %	62.91 %	
Molybdenum, Mo	3.8 %	3.8 %	
Nickel, Ni	7.0 %	7.0 %	
Nitrogen, N	0.27 %	0.27 %	
Tungsten, W	0.50 %	0.50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000800 ohm-cm	0.0000800 ohm-cm	RT

## Contact Songhan Plastic Technology Co.,Ltd.

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