

## Outokumpu 4529 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-4529-Austenitic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Outokumpu-4529-Austenitic-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	8.10 g/cc	0.293 lb/in <sup>3</sup>	RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	750 MPa	109000 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	300 MPa	43500 psi	EN min., RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	360 MPa	52200 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	430 MPa	62400 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	160 MPa	23200 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	190 MPa	27600 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	230 MPa	33400 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	195 GPa	28300 ksi	RT
	166 GPa	24100 ksi	
	@Temperature 400 °C	@Temperature 752 °F	

Thermal Properties	Metric	English	Comments
	15.8 µm/m-°C	8.78 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	Comments
	16.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.39 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@ Temperature 400 °C	@ Temperature 752 °F	
Specific Heat Capacity	0.450 J/g-°C	0.108 BTU/lb-°F	RT
Thermal Conductivity	12.0 W/m-K	83.3 BTU-in/hr-ft <sup>2</sup> -°F	RT
	18.0 W/m-K	125 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	20 %	20 %	
Copper, Cu	0.50 %	0.50 %	
Iron, Fe	43.28 %	43.28 %	
Molybdenum, Mo	6.5 %	6.5 %	
Nickel, Ni	25 %	25 %	
Nitrogen, N	0.20 %	0.20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000100 ohm-cm	0.000100 ohm-cm	RT

## Contact Songhan Plastic Technology Co.,Ltd.

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