

## Outokumpu 4310 Cr-Ni Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

### Material Notes:

Cold work hardening steel suitable for manufacture of springs operating in corrosive conditions. Available hot rolled strip/sheet (CPP), cold rolled strip/sheet, cold rolled narrow strip, bar, and rod forms.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Outokumpu-4310-Cr-Ni-Austenitic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Outokumpu-4310-Cr-Ni-Austenitic-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in <sup>3</sup>	RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	800 MPa	116000 psi	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
Tensile Strength, Yield	250 MPa	36300 psi	EN min., RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	300 MPa	43500 psi	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	330 MPa	47900 psi	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
	@Strain 1.00 %	@Strain 1.00 %	
	190 MPa	27600 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	210 MPa	30500 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, Cold Rolled Strip/Sheet; 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	16.0 µm/m-°C	8.89 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	18.0 μm/m-°C Metric	10.0 μm/in-°F English	Comments
	@Temperature 400 °C	@Temperature 752 °F	
Specific Heat Capacity	0.500 J/g-°C	0.120 BTU/lb-°F	RT
Thermal Conductivity	15.0 W/m-K	104 BTU-in/hr-ft <sup>2</sup> -°F	RT
	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	0.10 %	0.10 %	
Chromium, Cr	17 %	17 %	
Iron, Fe	75.9 %	75.9 %	
Nickel, Ni	7.0 %	7.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000730 ohm-cm	0.0000730 ohm-cm	RT

## Contact Songhan Plastic Technology Co.,Ltd.

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