

Outokumpu 4016 Ferritic Stainless Steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel

Material Notes:

Fairly good corrosion resistant formable steel in mildly corrosive environments. Oxidation resistant at elevated temperatures (up to ~800°C). Ductile, does not work harden readily, and is well suited for deep drawing and bending. Applications: Used in a variety of interior applications where material cost and corrosion performance are important factors. Typical applications include: Washing machines Dish-washers Sinks Electrical tie-wire Vine wire Sink rims Counter tops Cooker hoods Refrigerators Tableware Restaurant equipment Indoor cladding Flue-gas ducts Available in cold rolled narrow strip, bar, and rod forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4016-Ferritic-Stainless-Steel.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	520 MPa	75400 psi	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
Tensile Strength, Yield	260 MPa	37700 psi	EN min., RT; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	380 MPa	55100 psi	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
	@Strain 0.200 %	@Strain 0.200 %	
	190 MPa	27600 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	200 MPa	29000 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 300 °C	@Strain 0.200 %, Temperature 572 °F	
	210 MPa	30500 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	220 MPa	31900 psi	EN min.; EN 10002-5
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	25 %	25 %	Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1
Modulus of Elasticity	220 GPa	31900 ksi	RT
	195 GPa	28300 ksi	

Mechanical Properties	Metric	English	Comments
	205 GPa	29700 ksi	
	@Temperature 400 °C	@Temperature 752 °F	
	@Temperature 300 °C	@Temperature 572 °F	
	210 GPa	30500 ksi	
	@Temperature 200 °C	@Temperature 392 °F	
	215 GPa	31200 ksi	
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 100 °C	@Temperature 212 °F	
	10.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 300 °C	@Temperature 572 °F	
	10.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 400 °C	@Temperature 752 °F	
	11.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.11 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 500 °C	@Temperature 932 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	RT
Thermal Conductivity	25.0 W/m-K	174 BTU-in/hr-ft ² -°F	RT
	@Temperature 400 °C	@Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	16.5 %	16.5 %	
Iron, Fe	83.46 %	83.46 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000600 ohm-cm	0.0000600 ohm-cm	RT

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