

Outokumpu 4028 Martensitic Stainless Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel

Material Notes:

Moderate corrosion resistant stainless steel hardenable up to 1000N/mm2. Re-sulphurized steel improves machining properties.Applications: ShaftsKnivesFastenersSurgical applicationsDomestic applicationsAvailable in cold rolled narrow strip and rod forms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Outokumpu-4028-Martensitic-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, Yield	600 MPa @Strain 0.200 %	87000 psi @Strain 0.200 %	EN min.,RT; EN 10002-1
Modulus of Elasticity	215 GPa	31200 ksi	RT
	190 GPa @Temperature 400 °C	27600 ksi @Temperature 752 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	10.5 µm/m-°C @Temperature 100 °C	5.83 µin/in-°F @Temperature 212 °F	
	12.0 µm/m-°C @Temperature 400 °C	6.67 µin/in-°F @Temperature 752 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	RT
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft ² -°F	RT
	25.0 W/m-K @Temperature 400 °C	174 BTU-in/hr-ft ² -°F @Temperature 752 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 %	0.30 %	
Chromium, Cr	12.5 %	12.5 %	
Iron, Fe	87.2 %	87.2 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000650 ohm-cm	0.0000650 ohm-cm	RT

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