

Goodfellow Awa®, Nickeloid®, Simlet®, Spedex® Nickel Silver

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Good machinability, excellent cold working and welding characteristics. Poor hot forming. Uses include rivets, screws, zippers, optical parts and costume jewelry. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Awa-Nickeloid-Simlet-Spedex-Nickel-Silver.php

Physical Properties	Metric	English	Comments
Density	8.72 g/cc	0.315 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	75 - 190	75 - 190	
Tensile Strength at Break	400 - 700 MPa	58000 - 102000 psi	
Elongation at Break	<= 45 %	<= 45 %	
Tensile Modulus	120 - 135 GPa	17400 - 19600 ksi	
Shear Strength	290 - 400 MPa	42100 - 58000 psi	
Izod Impact, Unnotched	1.10 - 1.30 J/cm	2.06 - 2.44 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 - 17.1 µm/m-°C	8.89 - 9.50 µin/in-°F	
	@Temperature 25.0 - 300 °C	@Temperature 77.0 - 572 °F	
Thermal Conductivity	28.0 W/m-K	194 BTU-in/hr-ft ² -°F	
Melting Point	1060 - 1110 °C	1940 - 2030 °F	
Solidus	1060 °C	1940 °F	
Liquidus	1110 °C	2030 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	62 %	62 %	
Nickel, Ni	18 %	18 %	
Zinc, Zn	20 %	20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000290 ohm-cm	0.0000290 ohm-cm	Temperature Coefficient of 0.0003/K

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