

FiberNide Nickel Aluminide Foam Atomic 22% Aluminum

Category : Metal , Intermetallic , Metal Foam, Mesh, or Honeycomb , Metal Matrix Composite , Nonferrous Metal , Nickel Alloy , Other Engineering Material , Composite Core Material

Material Notes:

Description: This Nickel aluminide foam has excellent high temperature strength, oxidation resistance, and conductivity. This unique combination of properties makes this foam particularly suitable for a wide range of catalyst supports, combustion mantels, and heaters. The ability to bond to other metallic materials allows the foam to be used as foam cores in high temperature metallic composites, high temperature heat exchangers, and probably for cooled surfaces for hypersonic vehicles. Results apply to nickel aluminide foam formed from 0.4 mm pore size, 0.28 g/cc nickel foam. The mechanical properties of the nickel aluminide foam are expected to increase as the density of nickel aluminide foam increases and as the pore size increases. Information provided by FiberNide, Ltd..

Order this product through the following link:

http://www.lookpolymers.com/polymer_FiberNide-Nickel-Aluminide-Foam-Atomic-22-Aluminum.php

Physical Properties	Metric	English	Comments
Density	0.280 g/cc	0.0101 lb/in ³	Ni Foam Starting Material

Mechanical Properties	Metric	English	Comments
Flexural Strength	5.52 - 5.53 MPa	801 - 802 psi	
Flexural Modulus	0.01492 - 0.01494 GPa	2.164 - 2.167 ksi	
Compressive Yield Strength	2.91 MPa	422 psi	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	11 %	11 %	
Nickel, Ni	89 %	89 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000330 - 0.000340 ohm-cm	0.000330 - 0.000340 ohm-cm	Unsintered
	0.000645 - 0.000655 ohm-cm	0.000645 - 0.000655 ohm-cm	Sintered

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