

Goodfellow Ni-Mn-Ga Magnetic Shape Memory Alloy (MSM)

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Nickel Alloy

Material Notes:

Ni50Mn28.5Ga21.5 single crystal. The magnetic shape memory phenomenon is produced by magnetic-field-induced rearrangement of (ferromagnetic) twinned martensite microstructure accompanied by a large macroscopic deformation. The magnetic field/strain curve can be altered by surface treatment. Applications: Actuators Breaker switches/fuses Energy harvesters Vibration dampers Sensors

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http://www.lookpolymers.com/polymer_Goodfellow-Ni-Mn-Ga-Magnetic-Shape-Memory-Alloy-MSM.php

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	martensite to austenite transformation

Component Elements Properties	Metric	English	Comments
Gallium, Ga	21.5 %	21.5 %	molar basis
Manganese, Mn	28.5 %	28.5 %	molar basis
Nickel, Ni	50 %	50 %	molar basis

Electrical Properties	Metric	English	Comments
Curie Temperature	95.0 - 105 °C	203 - 221 °F	

Descriptive Properties	Value	Comments
Elongation in Magnetic Field	< 6%	maximum
	3 to 5%	typical
Fatigue Life	several hundred million cycles	
Force Density	2 MPa	
Magnetic Field	0.8 T	
Response	< 1 to 2 kHz	
Work Output	< 100 kJ/m ³	force times stroke

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