

Special Metals Nitinol High-Strength Superelastic Ni-Ti alloy

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

Material Notes:

Special Metals Corporation is a producer of a series of "Nitinol" and other shape memory alloys used for a range of applications from precision engineering to medical technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Special-Metals-Nitinol-High-Strength-Superelastic-Ni-Ti-alloy.php

Physical Properties	Metric	English	Comments
Density	6.50 g/cc	0.235 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1450 MPa	210000 psi	
Tensile Strength, Yield	1280 MPa	185000 psi	of martensite after transition
Elongation at Break	8.0 %	8.0 %	max strain recovery
	12.5 %	12.5 %	
Tensile Set	0.10 %	0.10 %	permanent set after 6% strain

Thermal Properties	Metric	English	Comments
Melting Point	1300 Â°C	2370 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.050 %	<= 0.050 %	
Iron, Fe	<= 0.050 %	<= 0.050 %	
Nickel, Ni	55.4 - 56.4 %	55.4 - 56.4 %	
Oxygen, O	<= 0.050 %	<= 0.050 %	
Titanium, Ti	43.54 - 44.6 %	43.54 - 44.6 %	

Descriptive Properties	Value	Comments
Lower superelastic plateau stress, ksi	30	
Upper superelastic plateau stress, ksi	70	

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