

Special Metals Nitinol High-Strength Superelastic Ni-Ti-Fe 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-Fe-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	
Elongation at Break	8.0 %	8.0 %	max strain recovery
	>= 10 %	>= 10 %	
Tensile Set	0.50 %	0.50 %	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 %	
Hydrogen, H	<= 0.0050 %	<= 0.0050 %	
Iron, Fe	1.0 - 2.0 %	1.0 - 2.0 %	
Nickel, Ni	53 - 54 %	53 - 54 %	
Other	<= 0.010 %	<= 0.010 %	
Oxygen, O	<= 0.050 %	<= 0.050 %	
Titanium, Ti	43.885 - 46 %	43.885 - 46 %	

Descriptive Properties	Value	Comments
Lower superelastic plateau stress, ksi	65	
Upper superelastic plateau stress, ksi	100	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China