

RESONETICS

NITINOL MATERIAL FOR MEDTECH APPLICATIONS



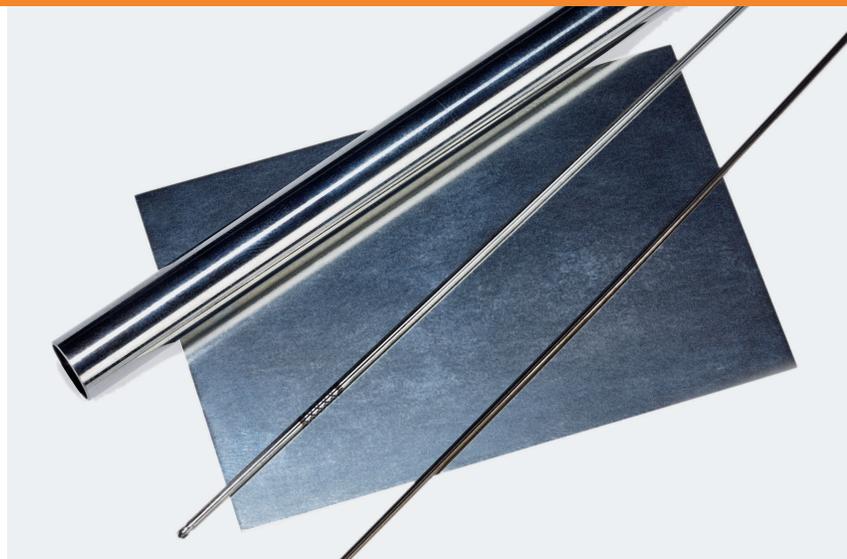
Medical device applications demand the exceptional properties of nitinol alloys and intricate, precision manufacturing techniques.

We have a legacy of melting nitinol, starting with first producing it for the US Naval Ordnance Laboratory in 1966. Our melting facility is completely dedicated to nitinol production and we are committed to supplying all MedTech customers with nitinol mill products and semi-finished raw materials.

At Resonetics, we push the boundaries of nitinol technology, offering innovative solutions that empower our partners to achieve new heights of performance and precision.

NITINOL MATERIAL CAPABILITIES

- Mill Products
- Wire and Strip
- Tube
- Sheet



NITINOL MATERIAL



Mill Products

We specialize in the commercial volume production of nitinol alloys and boutique melting of novel shape-memory and superelastic alloys. Our expertise extends to binary,

ternary, quaternary, and even more complex compositions, incorporating elements like Co, Cr, Cu, Fe, and Pt. These alloys are meticulously customized to exhibit precise thermo-mechanical responses, aligning with the unique requirements of diverse applications.



Wire and Strip

Our nitinol wire and strip support the most complex component designs requiring intricate geometric shapes.

Through precise adjustments in the wire's chemical composition and thermo-mechanical processing, Resonetics has achieved remarkable flexibility and kink resistance, making it indispensable for a wide range of medical device applications.



Tube

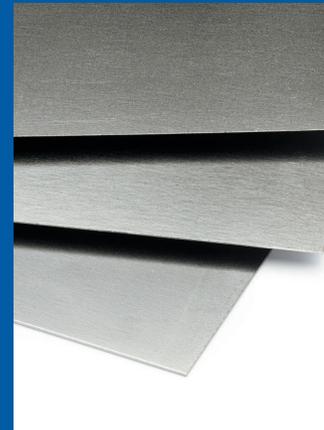
We manufacture nitinol tubes of various sizes and finishes, ranging from hypotubes as small as 0.1524mm outer diameter to precision tubes as large as 12mm inner diameter for stents,

heart valves, and other implantable applications. We draw these tubes from our in-house melted nitinol bars, ensuring precise control throughout the manufacturing process. Our advanced technology guarantees tight tolerances and high-quality nitinol tubes.



Sheet

Nitinol in sheet form offers a flat substrate that facilitates the volume production of intricate 2-dimensional design components. This product format empowers designers to leverage high volume batch manufacturing processes such as stamping, photochemical machining, EDM, waterjet, and cutting to create expansive and unique structures that may be otherwise unattainable.



		ASTM	Standard	Enduro
Nitinol Ingot	Max Inclusion Size	39 um	30 um	12 um
	Inclusion Area Fraction	2.8%	2.0%	0.5%

RESONETICS

www.resonetics.com