

superelastic sheet•strip•coil



The inherent dynamic properties of Nitinol, now made available in a sheet form, make this component Ideal for applications in which stamping, etching or laser cutting added value services ultimately enhance the performance of a finished medical device. Our Nitinol Sheet/Foil is available in a variety of alloy compositions, some of which are super-elastic materials and others more suited for actuator materials. Each sheet can be supplied in different conditions, such as cold worked, flat annealed or shape annealed.

Memry's continuous length strip is available in cold worked or fully superelastic conditions. The strip is manufactured to meet rigid alloy composition, dimensional and mechanical specifications and has all the capabilities and properties of Nitinol wire in a strip form.

The SAES Memry engineering and R&D teams can also assist in the establishment of a product specification and design criteria for your coiling and micro-coil needs. Our state of the art fabrication technology allows precise dimensional control critical to coiling design and applications.

saes
getters



MEMRY
www.memry.com



- Nitinol Sheet available in a variety of alloy compositions, including superelastic
- Surface finishes include; standard dark oxide up to oxide-free, bright and polished
- Standard Nitinol Sheet thickness 0.002" (0.050mm)



- Nitinol Strip available in the as-rolled cold worked or heat straightened conditions
- Strip standard thickness 0.002" (0.050mm)
- Strip surface standard dark oxide up to oxide-free (pickled)

- Coils and Micro-Coils available in Nitinol, Stainless Steel and specialty metals (Tungsten, Gold & Platinum alloys)
- Variable Pitch Winding
- Polymer Coated
- Joining capabilities; Soldering/Brazing, Laser Welding and Plasma Welding



highly flexible kink-resistant nickel titanium

Key Characteristics of Sheet Material

Standard Alloy Types	BA, BB, BD and B
<ul style="list-style-type: none"> • Standard thickness 0.002" (0.050 mm) with standard tolerance +/- 5%, tighter tolerances upon request • Coupon sizes of 3.93" x 18.897" (100 x 480 mm) • Bright, polished and electropolished surfaces • Active Af temperature ca. 0-10°C (alloy BB) • Nominal Loading Plateau 400 MPa (58000 psi) (alloy BB @ 3% strain) • Nominal Ultimate Tensile Strength in Austenite > 1100 MPa (159000 psi) (alloy BA and BB) • Max. residual elongation after 6% strain in Austenite < 0.5 % (alloy BB) • Min. elongation to failure in Austenite > 10% 	

Nitinol Strip

- Thermomechanical conditions: as-rolled cold worked or heat straightened conditions
- Surface preparation from standard dark oxide up to oxide-free (pickled) surfaces.
- Strip standard thickness at 0.002" (0.050mm)

Nitinol Coils and Micro-Coils

- SAES Memry engineering and development teams can assist you in the creation of a product specification and design criteria for your Nitinol coil and micro-coil needs. Our state-of-the-art fabrication technology allows precise dimensional control, critical to coiling design and applications.
- Round wire: From 0.0005" (0.0127mm) to 0.020" (0.508mm)
- Flat wire: From 0.005" (0.127mm) to 0.015" (0.381mm) thickness with corresponding widths of up to 1 to 5 thickness/width ratios
- Coils can be wound from polymer coated and/or jacketed wire

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