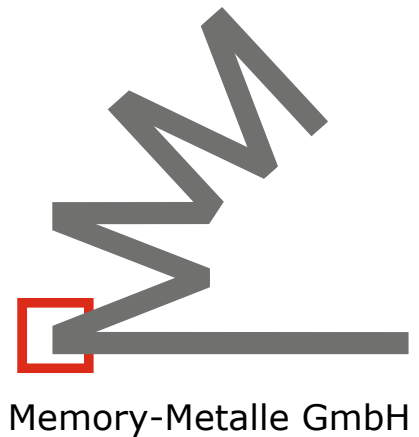


European partner of

Shape Memory Applications, Inc., USA



INFO - SHEET No. 3

Products and Services

' Alloys and Semi-finished Forms

A wide variety of items is immediately available for you from our inventory or can be supplied from our US partner company within 7 days.....

Forms:

- U Wire from 25 µm up to 5 mm and above
- U Ribbon and Strip from 50 x 25 µm² up to 10,1 x 0,76 mm²
- U Thin sheet down to 20 µm thickness and 100 mm width
- U Capillar tubes with O.D. down to 250 µm

Conditions:

- U A_r-temperatures between -100 up to +120 °C (standard alloys -25°C up to +120°C)
- U alloy fabrication possible upon special request
- U Surface conditions from shiny black oxide, amber/brown oxide over grounded up to ultra-fine polished surfaces
- U Thermomechanical Conditions from as cold-worked with different degrees of cold-work to straight annealed or set into specific shapes (springs, hooks, etc.)

' Custom Specified Components

A wide variety of custom shaped components to meet customers unique requirements.....

- U Actuators in spring shapes, straight wire and custom shapes
- U Medical products (Guide wires, couplings, stents, etc.)
- U Tube Couplings with expanded hysteresis
- U Miniature gripper with SMA-actuators

' Special Services for your Product Development

- U Development of prototypes
- U Choice and development of alloys
- U Data and literature base
- U Process development
- U Consulting in all questions of quality control

' Quality Control and Testing Tools

- U Transformation temperatures
- U Mechanical testing
- U Design and fabrication of any kind of special testing equipment

' Engineering Kit

- U 6 different samples of materials, shapes and actuators
- U Instruction manual (ca. 30 pages in english)

' Soldering Kit

- U the easiest solution for fixation of NiTiNOL to other metallic components