

## NiTiNOL

is a nickel titanium alloy which has remarkable "shape memory" or "super-elastic" characteristics, i.e. once a shape is set it will return to the original shape, or maintain its original shape after an initial deformation. This unique property provides many opportunities and end applications for this alloy, especially in the medical device industry.

### SERVICES OFFERED:

#### OXIDE REMOVAL

- Point Technologies has an advanced chemical and electrochemical NiTi processing capability: providing excellent cleaning, etching, polishing and surface preparation for today's market.

#### ELECTROCHEMICAL POLISHING

- Wire and tubing electropolished with a proprietary process which has negligible hydrogen absorption
- Virtually any wire shape can be treated
- Round
- Flat
- Custom Shape
- Wire diameters: from 0.001" (0.025 mm) and upwards
- NiTi tubing: OD's from as small as 0.004" (0.100 mm)

#### ELECTROPLATING

- NiTi wire and tube products can be electroplated for increased conductivity, radiopacity etc.
- Gold, silver, nickel, tin-nickel, tantalum, palladium and platinum

#### ADVANTAGES:

- Improved fatigue life/performance
- Uniform surface appearance and finish
- Surface preparation for soldering or welding applications
- Reduced crack propagation
- Reduced surface stress concentrators and blemishes
- Draw lines, defects and other imperfections can be reduced or eliminated
- Removing the oxide layer caused by heat setting reduces the opportunity of oxide flaking with material cycling
- Provides a uniform "processed" surface which enhances corrosion resistance and biocompatibility
- Point Technologies' electropolishing process minimizes the opportunity for hydrogen embrittlement
- NiTi surfaces can be enhanced or improved through electrochemical or chemical etching
- Final surface finish can be a high luster (4 RMS or better) or a matte finish depending upon processing and application requirements

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