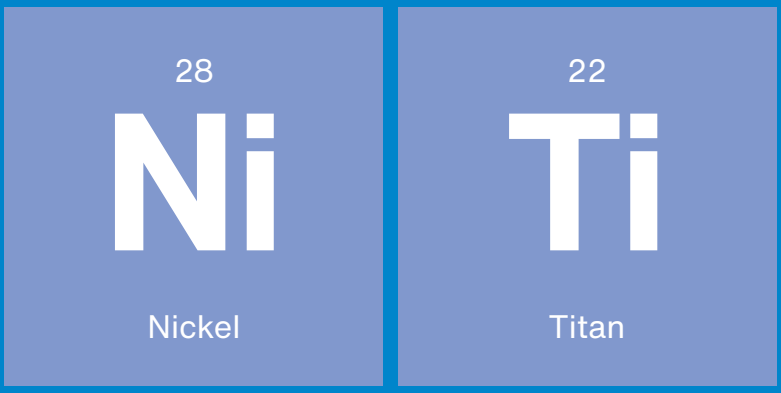
DIAMETAL
ABRASIVES



GRINDING NITINOL

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28 Ni Nickel

22 Ti Titan

INDUSTRY:

Micromechanics, Medical, Dental, Precision Grinding

MACHINED MATERIALS:

Nitinol

DESCRIPTION:

Grinding of Nitinol requires precise control of thermal and mechanical conditions due to its high ductility, low thermal conductivity and tendency to load the grinding wheel.
DIAMETAL solutions are designed to maintain stable grinding conditions, ensuring controlled material removal while preserving material integrity and functional properties.

FEATURES & BENEFITS:

Controlled thermal input

- Minimizes risk of material damage and preserves functional properties

Reduced wheel loading

- Ensures consistent cutting behavior and stable grinding conditions

High process stability

- Enables repeatable results in demanding applications

Optimized surface quality

- Supports high requirements in medical and precision components

Reliable performance in production environments

- Suitable for both small-scale and high-volume manufacturing
- *Nitinol requires stable and controlled grinding conditions due to its material behavior*
- *Wheel specification and process setup must be adapted to avoid loading and thermal damage*
- *Cooling strategy and process control are critical for achieving consistent results*
- *DIAMETAL focuses on process stability and reproducibility rather than parameter-based optimization*

DISCOVER OUR BEST SOLUTIONS

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