



7440-02-0 / 7440-32-6

Nickel Titanium NANOPARTICLES

Stock No: NS6130-07-700

Ti-Ni alloys consisting of equal atomic amounts of Ti and Ni show unique mechanical properties such as shape memory, super elasticity, and dumping. With the shape memory effect, the original shape can be recovered after deformation by heating; with super elasticity, any apparent plastic deformation can be returned to the original shape by releasing the load. Because of these unique properties, the Ti-Ni alloy is used for guide wires, stents, orthodontic arch wires, endodontic reamers and files.

Aerospace and naval applications - Ti-Ni alloys fluid fittings or

coupling have are being used in military aircraft and naval

Medical Applications - Tweezers for removing foreign objects

via small incisions, anchors for tendon fixation and stents for

Safety devices - Safety valves/actuators to control water

✓ Dentistry - Orthodontic wires, which do not need to be

Technical Specification

CAS

Purity

APS

Color

Form

Ni:Ti Molecular Formula

6.45 g/cm³ Density 1310 °C **Melting Point**

99.9%

80-150

Black

Powder

Chemical Composition

Assay 99.9%

50% (±0.5%) Nickel **Titanium** 50% (±0.5%)

Other Metal < 0.1 %

















INTELLIGENT MATERIALS PVT LTD

Application:

cardiovascular applications

retightened and adjusted

temperature and fire sprinklers

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