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“SURFACE MODIFICATION OF NiTi ALLOYS - NITINOL”

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Nitinol is a group of nearly equiatomic NiTi alloys with shape memory and super-elastic properties as well as biocompatibility and durability. Medical applications are still hindered by the concern for the release of Ni into biological tissues. The chemical element nickel is known to be allergenic and toxic.

The surface modification of Ni-Ti alloys with shape memory and super-elastic properties for use in medicine directed to improving biocompatibility and elimination of Ni from surface will be presented.