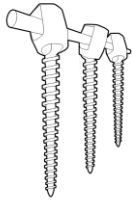


MEDICAL ALLOYS SPINE



CERTIFIED ACCORDING TO ISO 9001/TS 16949



DATA SHEET SPINE

Medical Alloys supplies metallic semi-finished products (wires, bars, profiles, strips/sheets and tubes) for the production of implants and instruments used in spinal surgery. The respective products are applied in the surgical treatment of injuries, diseases, misalignments and degenerative changes of the spine.

TYPICAL GRADES

Grades

1.4441	316L (Remelted)	ASTM F138/F139	ISO 5832-1
3.7165	Ti-6Al-4V ELI	ASTM F136	ISO 5832-3
3.7065	Pure Titanium Grade 4	ASTM F67	ISO 5832-2
2.4964	L 605 [®]	ASTM F90	ISO 5832-5
9.9007	Ni-Free	ASTM F2581	
9.9135	CoCr28Mo6 (Alloy 1)	ASTM F1537/F799	ISO 5832-12

ZAPP EXPERTISE

Spine implants have to provide sufficient stability to resist heavy, continuous and repetitive strain and pressure that comply with highest quality. Our many years of experience, application knowledge and material expertise make us the right supplier of high quality semi-finished products. Additional parameters such as biocompatibility, corrosion resistance and bending fatigue strength meet not only our strict specifications but also the international ISO and ASTM standards (further limitations beyond these specifications can be fulfilled on request).

PRODUCT EXAMPLES

- _ Rod-screw systems
- _ Plates
- _ Cages
- _ Vertebral body replacement
- _ Double-threaded screws
- _ Non-fusion
- _ Pedicle screws
- _ Spacers
- _ Intervertebral implants
- _ Internal and external fixators

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Further information regarding our products and locations are available in our image brochure and under www.zapp.com

The illustrations, drawings, dimensional and weight data and other information included in this data sheet are intended only for the purposes of describing our products and represent non-binding average values. They do not constitute quality data, nor can they be used as the basis for any guarantee of quality or durability. The applications presented serve only as illustrations and can be construed neither as quality data nor as a guarantee in relation to the suitability of the material. This cannot substitute for comprehensive consultation on the selection of our products and on their use in a specific application. The brochure is not subject to change control.

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