

CERTIFICATE

of biocompatibility

Mediloy® Titan Grade 5 SLM

Mediloy® Titan Grade 5 SLM is a titanium-based dental alloy for the SLM process. It is suitable for the fabrication of dental restorations. Mediloy® Titan Grade 5 SLM is available in powder form for SLM process.

Composition in % by mass:

| Ti | Al | V | Fe | O |
|------|-----|-----|-------|-------|
| 89.8 | 6.0 | 4.0 | < 1.0 | ≤ 0.1 |

The alloy corresponds to ISO 22674.

Mediloy® Titan Grade 5 SLM is free of nickel, cadmium, beryllium and lead in accordance with ISO 22674.

Manufacturer:

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG
Wilhelm-Herbst-Str. 1 · 28359 Bremen, Germany

Production:

Mediloy® Titan Grade 5 SLM is produced in accordance with ISO 9001 and ISO 13485 and is approved as a class IIa medical device in the EU.

Mechanical properties:

The mechanical requirements in accordance with ISO 22674 have been met.

Tests and results:

Corrosion

A corrosion resistance test in accordance with the ISO 22674 "Metallic materials for fixed and removable restorations and appliances" standard has been performed. The value recorded was considerably lower than the threshold value for the ion release (corrosion) of 200 µg/cm² in 7 days defined by the standard. The corrosion resistance and intra-oral biocompatibility are thus confirmed.

Cytotoxicity

A test for potential cytotoxicity in accordance with the internationally applicable ISO 10993-5 standard has been performed. No cytotoxic potential was determined.

Final evaluation:

It is hereby confirmed that the material has been evaluated in accordance with the internationally applicable ISO 10993-1: "Biological evaluation of medical devices" standard. The evaluation includes, amongst other things, possible risks such as cytotoxicity, sensitisation, irritation, material mediated pyrogenicity, genotoxicity, systemic toxicity, implantation and carcinogenicity.

Any tests conducted were performed in independent testing facilities in accordance with the specifications of the OECD guidelines and in compliance with the GLP (Good Laboratory Practice) and/or ISO 17025 requirements.

The evaluation confirms the biological compatibility of Mediloy® Titan Grade 5 SLM when used in accordance with the intended purpose.

Date of issue:

April 13th, 2026



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