Dr. G. Henning
Dental Engineering

Certificate

Biocompatibility Test

Material tested: **Wirobond MI+**

Dental metal-to-ceramic alloy, ISO 9693, ISO 22674, Type 5

Composition / in % by weight:

Co 63.8	Cr 24.8	W 5.3	Mo 5.1	Si 1

Manufacturer: **BEGO Bremer Goldschlägerei Wilhelm Herbst GmbH & Co. KG**
Technologiepark Universität · Wilhelm-Herbst-Straße 1 · 28359 Bremen, Germany

Test:

We confirm that the following test for determining the biocompatibility of the dental alloy was carried out in accordance with the ISO 10993, "Biological evaluation of medical devices" (ISO 10993-1, ISO 10993-5, ISO 10993-12) and ISO 7405 "Dentistry – Preclinical evaluation of biocompatibility of medical devices used in dentistry – Test methods for dental materials". The test weas performed according to the OECD directive "Good Laboratory Practice" (GLP) by the Institute BSL Bioservice Scientific Laboratories, Planegg, Germany.

The test specimens have been produced with the CAD/CAM-technology by BEGO Medical GmbH and processed by a commercial dental laboratory according to the instructions of the BEGO.

The tests were coordinated and monitored by Dr. Henning Dental Engineering.

Cytotoxicity:

The cytotoxic potential of the dental alloy was tested in vitro with L-929 fibroblasts. Method: "Test on extracts", XTT staining, ISO 10993-5: 2009, ISO 10993-12: 2007 and ISO 7405: 2008.

Test result: **Wirobond MI+ had no cytotoxic potential.**

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