## Certificate of biocompatibility

## Wirobond<sup>®</sup> C

Wirobond<sup>®</sup> C is a cobalt-based dental casting alloy. It is suitable for the fabrication of crowns, bridges as well as metal-ceramic restorations.

Composition in % by mass:	Со	Cr	W	Мо	Si	Ce
	63.3	24.8	5.3	5.1	1.0	<1.0
	The alloy corresponds to ISO 22674 and ISO 9693-1. Wirobond® C is free of nickel, cadmium, beryllium and lead in accordance with ISO 22674.					
Manufacturer:	<b>BEGO Bremer Goldschlägerei Wilh. Herbst GmbH &amp; Co. KG</b> Wilhelm-Herbst-Str. 1 · 28359 Bremen, Germany					
Production:	Wirobond <sup>®</sup> C is produced in accordance with ISO 9001 and ISO 13485 and is approved as a clas medical device in the EU as well as having been certified by TÜV Rheinland ( <b>C €</b> 0197).					
Mechanical properties:	The mechanical requirements in accordance with ISO 22674 have been satisfied.					
Fests and results:	<b>Corrosion</b> A corrosion resistance test in accordance with the ISO 22674 "Metallic materials for fixed and remo restorations and appliances" standard has been performed. The value recorded was considerably I than the threshold value for the ion release (corrosion) of 200 µg/cm <sup>2</sup> in 7 days defined by the stan corrosion resistance and intra-oral biocompatibility are thus confirmed.					
	<b>Cytotoxicity</b> A test for potential cytotoxicity in accordance with the internationally applicable ISO 10993-5 stan been performed. No cytotoxic potential was determined.					
Final evaluation:	It is hereby confirmed that the material has been evaluated in accordance with the internationally ble EN ISO 10993-1: "Biological evaluation of medical devices" standard. The evaluation includes other things, possible risks such as cytotoxity, sensitisation, irritation and genotoxicity.					
	The tests conducted were performed in independent testing facilities in accordance with the speci- of the OECD guidelines and in compliance with the GLP (Good Laboratory Practice) requirements.					
	The evaluation confirms the biological compatibility of Wirobond® C when used in accordance with intended purpose.					
Date of issue:	May 31th,	2017				
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BEGO Bremer Goldschlägerei Wilhelm Herbst GmbH & Co. KG

(Cant June 20

**Dr. Roland Strietzel** Medical Devices Safety Officer

BEGO Bremer Goldschlägerei Wilhelm Herbst GmbH & Co. KG