Certificate of biocompatibility

Wirobond[®] 280

Wirobond® 280 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:	Co	Cr	W	Мо	Ga	Mn	Si	
	60.2	25.0	6.2	4.8	2.9	<1.0	<1.0	
		The alloy corresponds to ISO 22674 and ISO 9693-1. Wirobond® 280 is free of nickel, cadmium, beryllium and lead in accordance with ISO 22674.						
lanufacturer:	BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str. 1 · 28359 Bremen, Germany							
Production:	Wirobond® 280 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 (C € 0197).							
Aechanical properties:	The mechanical requirements in accordance with ISO 22674 have been satisfied.							
Tests and results:	Corrosion A corrosion resistance test in accordance with the ISO 22674 "Metallic materials for fixed and restorations and appliances" standard has been performed. The value recorded was considerat than the threshold value for the ion release (corrosion) of 200 µg/cm ² in 7 days defined by the corrosion resistance and intra-oral biocompatibility are thus confirmed.							
		potential cytot		ordance with al was determ		nally applicabl	e ISO 10993	
Final evaluation:	It is hereby confirmed that the material has been evaluated in accordance with the internation ble EN ISO 10993-1: "Biological evaluation of medical devices" standard. The evaluation inclu other things, possible risks such as cytotoxity, sensitisation, irritation and genotoxicity.							
	The tests conducted were performed in independent testing facilities in accordance with the s of the OECD guidelines and in compliance with the GLP (Good Laboratory Practice) requiremen							
	The evalua intended p		the biologica	al compatibilit	y of Wirobond'	® 280 when us	ed in accord	
Date of issue:	May 31th,	2017						
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