CERTIFICATE

of biocompatibility

Mediloy® S-Co

Mediloy® S-Co is a cobalt-based dental alloy for SLM process. It is suitable for the fabrication of dental restorations (e.g. crowns, bridges, metal-ceramic crowns and bridges, partial dentures). Furthermore, it is suitable for implant prosthetics (e.g. abutments, bars, secondary bar structures, screw-retained bridges) as well as orthodontic appliances (e.g. orthodontic bands, retainers, space maintainers).

Composition in % by mass:	Co	Cr	W	Мо	Si
in /o by indee.	63,9	24,7	5,4	5,0	1,0
	The alloy corresponds to ISO 22674 and ISO 9693-1. Mediloy® S-Co is free of nickel, beryllium, cadmium and lead in accordance with ISO 22674.				
Manufacturer:		ner Goldschlä erbst-Str. 1 · 2		lerbst GmbH & n, Germany	Co. KG
Production:	Mediloy [®] S-Co is produced in accordance with ISO 9001 and ISO 13485 and is approved as a class IIb medical device in the EU.				
Mechanical properties:	The mecha	inical requiren	ients in acco	rdance with ISC) 22674 have been satisfied.
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/cm ² 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 EN ISO 10993-1: "Biological evaluation of medical devices" standard. The evaluation includes, amongst other things, possible risks such as cytotoxity, sensitisation, irritation and genotoxicity.				
	The 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) requirements.				
	The evalua intended p		the biologica	l compatibility	of Mediloy $^{\otimes}$ S-Co when used in accordance with the
Date of issue:	March 31 st	, 2020			
	Chief Deve	ephan Kim Iopment and I ner Goldschläg		ficer	Dr. Roland Strietzel Medical Devices Safety Officer BEGO Bremer Goldschlägerei

Wilhelm Herbst GmbH & Co. KG

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