

Callisto[®] Implant 33

Economical, reduced-gold implant alloy

Callisto Implant 33 is a reduced-gold ceramic alloy which is especially suitable for the fabrication of implant superstructures as a result of its composition and physical properties.

Pd	Au	Ag	Ga	Sn	In	Re	Ru	Li
	33.0	-						

Advantages

- Inexpensive, reduced-gold alloy with a low density for increased economic efficiency
- Wide indication range, particularly suitable for implant superstructures
- Excellent physical properties: particularly high strength values, especially for long-span restorations
- Convenient handling and polishing properties

Indications

Inlays, onlays, partial crowns, crowns, ceramic crowns, telescope and conus crowns, root canal posts, short- and long-span bridges, implant superstructures, model casting

Technical data

Colour	white
Туре	4
Density (g/cm ³)	12.6
Melting interval (°C)	1115 – 1305
Casting temperature (°C)	1370 – 1426
CTE 25 – 500 °C	14.0
Elongation (%)	35
Modulus of elasticity (MPa)	120,000
Oxide firing °C / minutes / vacuum	925 / 1 / no vacuum
Vickers hardness	235
0.2% proof stress (MPa)	500







Certificate

Test material: Callisto[®] Implant 33

Composition in mass %			5							
Callisto [®] Implant 33	52.8	33.0	7.2	4.1	2.4	<1.0	<1.0	<1.0	<1.0	

Manufacturer	Ivoclar Vivadent AG, Bendererstrasse 2, FL-9494 Schaan, Liechtenstein				
Corrosion resistance	The test was conducted according to the international regulations of ISO 1562 and ISO 6871–1: static immersion test through analytical determination of the metal ion release after a 7-day immersion.				
	Result: The metal ion release after 7 days of immersion was not significant.				
	Testing facility: University of Mississippi Medical Center, 2500 North State Street Jackson, MS 39 216-4505				
Cytotoxicity	The Agar Diffusion test determines the biological reactivity of cell culture on test material.				
	Result: The test material is considered non-cytotoxic and meets the requirements of the Agar Diffusion test according to ISO 10993–5.				
	Testing facility: Toxikon Corporation, 15 Wiggins Avenue, Bedford, Massachusetts				
Mutagenicity	An Ames assay was conducted to determine any possible cancer potential. Test results: No mutagenicity potential was found to exist in these alloys.				
Kligman Maximization	This test evaluated the allergenic potential and/or sensitizing capacity of these alloys. Test results: Based on the standards set by the study protocol, these alloys exhibited no reaction of the challenge (0 % sensitization)				
Sensitivity of oral mucosa	Test to determine the contact sensitivity of these alloys at the buccal oral mucosa. Test results: No reactions were noted in conjunction with these alloys. Testing facility: Toxikon Corporation, 15 Wiggins Avenue, Bedford, Massachusetts				

Amherst, June 2013

Dr. George Tysowsky, D. D. S., M. P. H.

Vice President-Technology

EC Representative: Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan Principality of Liechtenstein Tel. +423 / 235 35 35 Fax +423 / 235 33 60 www.ivoclarvivadent.com

Manufacturer: Ivoclar Vivadent, Inc. 175 Pineview Drive USA, Amherst, NY 14228 Tel. (716) 691 0010 Tel.1 800 533 6825 Fax (716) 691 2285

Notified Body: SGS United Kingdom Limited Unit 202B Worle Parkway Weston Super Mare BS22 6WA United Kingdom

