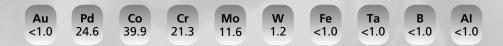


## Callisto<sup>®</sup> CPG

# Cobalt-chrome-based ceramic alloy containing palladium and gold

Callisto CPG is a very economic cobalt-chrome-based ceramic alloy with palladium and gold content at a fixed price.



#### Advantages

- Minimized risk and improved calculability due to the fixed price strategy
- Low material consumption due to very low density and thus low fabrication costs per unit
- Excellent physical properties with high strength values, ideally suitable for the press technique
- Wide range of indications from single restorations to long-span bridges
- Compatible with the most popular veneering ceramics for the layering and press technique as well as laboratory composites (SR Nexco)
- "Noble Alloy" (precious metal alloy) according to Identalloy
- Free of silver, copper, nickel and beryllium

#### Indications

Onlays, <sup>3</sup>/<sub>4</sub> crowns, crowns, ceramic crowns, short- and long-span bridges, telescope and conus crowns, root canal posts, implant superstructures, model casting

#### **Technical Data**

Colour	white
Туре	5
Density (g/cm <sup>3</sup> )	9.3
Melting range (°C)	1185 - 1275
Casting temperature (°C)	1345 - 1385
CTE 25 - 500° C	14.2
Oxide firing °C / min / vacuum	900 / 1 / no vacuum
Vickers hardness	338
0.2 % proof stress (MPa)	660
Modulus of elasticity (MPa)	230,000
Elongation (%)	7.0



Dental lab work was performed by Zahntechnik Oss, Innsbruck, Austria





## Certificate

### Test material: Callisto<sup>®</sup> CPG

In %	Au	Pd	Co	Cr	Мо	W	Fe	Та	В	Al
Callisto CPG	<1.0	24.6	39.9	21.3	11.6	1.2	<1.0	<1.0	<1.0	<1.0

Manufacturer	Ivoclar Vivadent Inc., 175 Pineview Drive, Amherst, NY 14228, USA
Corrosion resistance	The test was conducted according to the international regulations ISO 22674 and ISO 10271: Static immersion test with 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.
	<b>Testing facility:</b> Department of Biomedical Materials Science, University of Mississippi Medical Center, 2500 North State Street, Room D528, Jackson, MS 39216-4505
Cytotoxicity	The Agar Diffusion test determines the biological reactivity of cell culture on test material.
	<b>Result:</b> The test material is considered non-cytotoxic and meets the requirements of the Agar Diffusion test according to ISO 10993-5.
	<b>Testing facility:</b> Toxikon Corporation, 15 Wiggins Avenue, Bedford, MA 01730
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.
	<b>Test results:</b> 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 Tochasland

Vice President-Technology

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

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