



















Advantages

- Esthetic, golden yellow color
- High stability
- Excellent processing and polishing properties
- Suitable for bondingsystem and veneering composites
- Certified biocompatibility

Indication

Onlays, 3/4 crowns, crowns, implant superstructures, telescope and conus crowns, posts, short- and long-span bridges

Technical Data

Color	yellow
Туре	4
Density (g/cm³)	15.6
Melting range (°C)	860 – 925
Casting temperature (°C)	980 – 1040
Elongation (%)	5.0
Modulus of elasticity (MPa)	86.000
Vickers hardness	220
0.2 % Proof stress (MPa)	505











Certificate

Test material: High Gold C&B alloys

Composition in % weight	Au	Pt	Ag	Cu	ln	lr	Sn	Zn	Other
Academy Gold™	77.2	<1.0	12.7	8.5	<1.0	<1.0	_	<1.0	Ta <1.0
Academy Gold™ XH	70.7	3.6	13.7	10.0	_	<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 of ISO 1562 and

ISO 6871-1: static immersion test through analytical determination of the metal ion

release after a 7-day immersion.

Test results: The metal ion release after 7 days of immersion was not significant.

Testing facility: Louisiana State University, Dr. Sakar

Cytotoxicity The Agar Diffusion test determines the biological reactivity of cell culture on test

material.

Test results: The test material is considered non-cytotoxic and meets the requirements

of the Agar Diffusion test according to ISO 10993-5.

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 to the challenge (0 % sensitization).

Sensitivity of 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, May 2010

oral mucosa

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