

# **Academy Gold™**

### High-gold alloy for esthetic gold restorations

**Au** 77.2















#### **Advantages**

- Palladium-free
- Esthetic, yellow-golden color
- Extended range of indications
- Optimum adaptation properties even after oven hardening
- Excellent casting and processing properties
- Certified biocompatibility

#### Indication

Inlays, onlays, 34 crowns, crowns, short-span bridges

#### **Technical Data**

Color	rich yellow
Туре	2
Density (g/cm³)	15.9
Melting range (°C)	900 – 940
Casting temperature (°C)	1035 – 1095
Elongation (%)	55
Modulus of elasticity (MPa)	75.200
Vickers hardness	125
0.2 % Proof stress (MPa)	240











## 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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