

# Brite Gold™



## High gold ceramic alloy

Brite Gold exhibits a warm yellow color for a natural and esthetic shade effect of the veneer and the required hardness for easy polishing.

<b>Au</b> 96.3	<b>Pt</b> 2.6	<b>In</b> < 1.0	<b>Sn</b> < 1.0	<b>Fe</b> < 1.0	<b>Mn</b> < 1.0	<b>Ir</b> < 1.0	<b>B</b> < 1.0	<b>Cu</b> < 1.0
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### Advantages

- Palladium-free
- Warm, golden yellow color
- Good melting and flow properties
- Increased hardness / stability
- Certified biocompatibility

### Indication

Inlays, onlays, ¾ crowns, crowns, short span bridges

### Technical Data

Color	rich yellow
Type	2
Density (g/cm <sup>3</sup> )	19.0
Melting range (°C)	1030 – 1070
Casting temperature (°C)	1125 – 1185
CTE 25 – 500 °C	14.8
CTE 20 – 600 °C	15.0
Elongation (%)	15.0
Modulus of elasticity (MPa)	78.700
Oxide firing °C / min. / vacuum	925 / 5 / no vacuum
Vickers hardness	90
0.2 % Proof stress (MPa)	160



Clinical case by Lee Culp, CDT

# Certificate

## Test material: High Gold Ceramic alloy

Composition in % weight	Au	Pt	Cu	In	Ir	Sn	Mn	Li	Other
<b>Brite Gold™</b>	96.3	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	–	B <1.0, Fe <1.0
<b>Brite Gold™ XH</b>	88.9	9.0	–	<1.0	<1.0	<1.0	<1.0	<1.0	Fe <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 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, May 2010



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