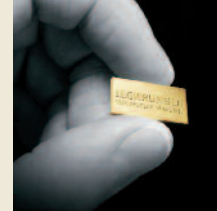


Brite Gold™ XH



High gold ceramic alloy

Brite Gold XH offers a wide range of indications and a golden yellow color for an esthetic true-to-nature restoration.

Au 88.9	Pt 9.0	In < 1.0	Sn < 1.0	Fe < 1.0	Mn < 1.0	Ir < 1.0	Li < 1.0
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Advantages

- Palladium-, silver- and zinc-free
- No pickling step after oxidation
- High temperature strength
- Compatible with conventional feldspar ceramics
- Certified biocompatibility

Indication

Inlays, onlays, $\frac{3}{4}$ crowns, PFM crowns, crowns, telescope and conus crowns, posts, short and long-span bridges

Technical Data

Color	rich yellow
Type	3
Density (g/cm ³)	18.8
Melting range (°C)	1080 – 1150
Casting temperature (°C)	1205 – 1265
CTE 25 – 500 °C	14.4
CTE 20 – 600 °C	14.7
Elongation (%)	11.0
Modulus of elasticity (MPa)	107.000
Oxide firing °C / min. / vacuum	980 / 5 / vac
Vickers hardness	180
0.2 % Proof stress (MPa)	335



Certificate

Test material: **High Gold Ceramic alloy**

Composition in % weight	Au	Pt	Cu	In	Ir	Sn	Mn	Li	Other
Brite Gold™	96.3	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	–	B <1.0, Fe <1.0
Brite Gold™ XH	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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Vice President-Technology