## **AZTEC** HIGH NOBLE YELLOW PORCELAIN ALLOY

**AZTEC**, a high gold, high noble 99.9% Au porcelain dental alloy, is the unparalleled aesthetic option for only single unit anterior PFM restorations. With a very light oxide, technicians can accurately match shades to the surrounding dentition and the natural characteristics of gold provide AZTEC with a very high level of bio-compatibility.

PROPERTIES		CHEMIS
Melting Point	1945°F (1063°C)	Gold
Coefficient of Thermal Expansion		Contains
from 25-500°C	15.3	Classifica
from 25-600°C	15.5	
Density	19.3 g/cm <sup>3</sup>	AFTER P
		Hardness

CHEMISTRYGold99.9%Contains less than 1% IndiumClassification - High Noble

## AFTER PORCELAIN FIRING

22 HV

## **PROCESSING TECHNIQUE**

- **WAXING** Wax to a minimum of 0.2mm. Provide an ample reservoir, either with the use of a reservoir sprue or a runner bar (indirect method).
- **INVESTMENT** Use either a gypsum bonded investment or a phosphate bonded high heat investment. Gypsum investments allow for easier removal of the delicate castings.
- **BURNOUT** Follow manufacturer's instructions for appropriate rate of climb. With gypsum investment, burnout temperature can not exceed 1200°F (650°C). With phosphate bound investments, use a maximum temperature of 1400°F (760°C)
- **DEVESTING** Aztec castings are extremely fragile and are easily distorted. Divest with the utmost care.
- MELTING AND<br/>CASTINGNo extra turns of the casting arm are required (2-3 turns). Multi-orifice torch: 5-7 psi fuel and<br/>10-15 psi oxygen. DO NOT USE CASTING FLUX. Casting temperature ~2125°F (1160°C). Always use<br/>a minimum of 50% new metal when remelting buttons
- **FINISHING** Aztec castings are very soft, and care must be taken with surface finishing. You may use the abrasive of your choice provided adequate care is taken.

We have obtained outstanding and consistant results by first removing excess metal with a sharp carbide, then gently smoothing the surface with a fine aluminum oxide stone. A coarse rubber wheel for final finishing has also provided satisfactory results.

Provided care is taken, the surface may then be gently sandblasted. Sandblasting is not essential, but may provide users with a more uniform appearing oxide.

**OXIDATION** Oxidize from 1200°F (650°C) to 1740°F (950°C) at 145°F/min (80°C/min) in air with no hold time. Bench cool. Proceed with normal opaque technique.

SOLDERING In that Aztec is not recommended for mulit-unit cases, it is unlikely that soldering will be necessary. If soldering is required, the following materials are recommended: Pre-solder: CPS Post-solder: 650 Flux: Brown Fluoride Flux



Jensen Industries, Inc. 50 Stillman Road North Haven, CT 06473 USA EC REP

Gustav – Werner Str. 1 D-72555 Metzingen Freecall: 0800-8 57 32 30 info@jensendental.de www.jensendental.de Jensen Technical Service is available 8:00 AM - 8:00 PM EST by calling **1-800-243-2000** 



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