

VERITY
HIGH NOBLE WHITE CERAMIC ALLOY
Au & Pt Group: 89.2%

Rev0

| PROPERTIES* | |
|---|------------------------|
| Melting Range | 1130-1285°C |
| Coefficient of Thermal Expansion from 25-500°C | 13.8 |
| from 25-600°C | 14.1 |
| Density | 13.8 g/cm ³ |

| CHEMISTRY | |
|------------------|-------|
| Gold | 45.0% |
| Palladium | 44.2% |
| Indium | 6.5% |
| Tin | 2.2% |
| Gallium | 2.0% |
| Rhenium | <1% |

| AFTER PORCELAIN FIRING* | |
|-------------------------------------|---------|
| Hardness | 250 HV |
| Tensile Elongation | 20% |
| Tensile Yield Strength/Proof Stress | 560 MPa |
| Ultimate Tensile Strength | 770 MPa |
| Modulus of Elasticity | 130 Gpa |

* Test methods conform to ISO Standard 9693 and ANSI/ADA 38

PROCESSING TECHNIQUE

- WAXING** 0.3mm for single units and 0.5mm for bridgework
- INVESTMENT** Phosphate-bonded high heat investment with or without carbon
- BURNOUT** 1550°F (850°C)
- MELTING AND CASTING** Wind the casting arm one more time than normal (3-4 winds).
 Multi-orifice torch: 10 psi fuel and 20 psi oxygen (0.7 bars fuel and 1.4 bars oxygen).
 Heat until alloy is clear and fluid. **DO NOT OVERHEAT.**
DO NOT USE CASTING FLUX.
 Casting temperature ~2400°F (1315°C).
- FINISHING** Finish with aluminum oxide stones. Blast porcelain receiving surfaces with non-recycled aluminum oxide. Clean in ultrasonic for 10 minutes.
- CONDITIONING (Degassing, Oxidation)**
 Oxidize at 1850°F (1010°C) in air. Hold for 5 minutes. Bench cool.
 Proceed with normal opaque technique.
- SOLDERING**
 Pre-solder P-80 Solder or LX Solder
 Post-solder 615 or 1400 Solder
 Flux Brown Fluoride Flux (for both pre & post soldering)

Jensen Technical Service is available 8:00 AM - 8:00 PM EST by calling 1-800-243-2000

