

# Save with ARGEDENT EURO

Beautiful. Strong.

# ECONOMICAL



- ADA High Noble Classification
- Low density of 12.8 results in more units per ounce
- Expansion coefficient of 14.4 provides broad porcelain compatibility

# #1

**Top Selling  
High Noble Alloy  
in the USA**



*Alloy Makers to the World*

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HN

**100%**  
Satisfaction  
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# ARGEDENT EURO PORCELAIN FUSED TO METAL ALLOY

Argedent EURO is the most economical High Noble alloy on the market. This versatile alloy casts, finishes, solders and laser welds very easily, with broad porcelain compatibility. Argedent EURO has exceptional strength, and allows for the fabrication of any type of PFM restoration, including implants.

## MAJOR COMPONENTS

Gold	Palladium	Silver	Indium	Gallium	Ruthenium	Silver
40.0%	39.4%	10.0%	8.8%	1.4%	X	X

"X" denotes a metal content of less than 1% of the alloy composition

## PHYSICAL PROPERTIES

Melting Range	Casting Temperature	Density
2050-2300°F (1120-1260°C)	2550°F (1400°C)	12.8 g/cc

## MECHANICAL PROPERTIES

Vickers Hardness		Yield Strength (0.2% offset)		Ultimate Tensile Strength		Elongation %		Co-Efficient of Thermal Expansion x10 <sup>-6</sup> /°C
soft	hard	soft	hard	soft	hard	soft	hard	25-600 °C
260	290	540 N/mm <sup>2</sup>	550 N/mm <sup>2</sup>	800 N/mm <sup>2</sup>	840 N/mm <sup>2</sup>	15	9	14.4
		78,300 psi	78,000 psi	116,000 psi	121,800 psi			

## INSTRUCTIONS FOR USE

### WAXING AND SPRUING

Single Crown	Multi-Units & Bridges
A minimum of 0.3 mm wax thickness is recommended. Use direct sprues, 8-10 gauge, (3.3-2.6mm diameter) and 1/2" (12mm) long with adequate reservoirs.	Wax pattern design should have lingual collars and no sharp corners. Use a 6 gauge (4.1 mm diameter) runner bar, connecting the units to the bar with 10 gauge (2.6 mm diameter) sprues 1/8" (3 mm) long and joining the bar to the sprue base with 8 gauge (3.3 mm diameter) sprues coming from a domed central entry point.
In all cases there should be no more than 1/4" (6 mm) of investment from the top of the pattern to the top of the investment.	

**INVESTING** A high-heat (phosphate-bonded) investment is required. Follow the manufacturer's instructions.

**BURNOUT** After adequate set-up time, place the ring(s) in a room temperature oven and raise the temperature to 1499°F (815°C) and hold for 1 hour plus 10 minutes for each additional ring. If you are using a rapid-fire investment, follow the manufacturer's instructions.

**CASTING** We recommend casting in a ceramic crucible using a gas/oxygen torch with a multi-orifice tip. If you are using induction casting, set the machine to 2550°F (1400°C). Add 50% new metal to the cleaned buttons.

**FINISHING** Grind the metal with non-contaminating aluminum oxide stones. Blast with non-recycled 50 micron aluminum oxide. Clean in distilled water using an ultrasonic cleaner for ten minutes.

**DEGASSING** Insert the casting in furnace at 1200°F (649°C). Raise the temperature to 1850°F (1010°C). Do not hold. Allow to bench cool. Opaque directly on the oxide.

**OPAQUING** Follow the recommendations of the porcelain manufacturer. For better bonding, first fire a thin wash of opaque at 10-15°F (10°C) above normal temperature, followed by regular opaque coats.

**SOLDERING** Use Solder W for pre-soldering. Use Solder LO for post-soldering.