ARGEDENT 90 Pure life.

Pure beauty Rich gold color allows for warm life-like porcelain shades.

Pure radiance Light oxide provides excellent shade control and vitality.

Pure ease Easier to polish than other yellow high gold alloys.

Pure strength Used for both anterior and posterior short and medium span bridge work.

Pure compatibility Compatible with all major porcelains.

Pure value More economical than most other yellow high gold alloys.

89.5% Gold	5.8% Platinum		
1.5% Palladium	1.2% Silver		

ARGEN



Alloy Makers to the World

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ARGEDENT 90 PORCELAIN ALLOY

ARGEDENT 90 is a hard, deep yellow color porcelain alloy compatible with most dental porcelain systems available on the market. It is recommended for single crowns and short span bridges.

COMPOSITION

Gold	Platinum	Palladium	Silver	Tin	Iridium	Indium	Iron
89.5 %	5.8 %	1.6 %	1.2 %	Х	Х	Х	Х

"X" denotes a content of less than one percent.

PHYSICAL PROPERTIES

Melting Range	Casting Temperature	Density		
1904-2111°F (1040-1155°C)	2372°F (1300°C)	18.8 g/cm ³		

MECHANICAL PROPERTIES

Vicker	s Hardness	Iness Yield Strength (0.2% Offset) Ultimate Tensile Strength		sile Strength	Elongation %		Co-efficient of Thermal Expansion x10-6/°C	
soft	hard	soft	hard	soft	hard	soft	hard	25-600 °C
125 140	201 N/mm ²	224 N/mm ²	319 N/mm ²	332 N/mm ²	15	10	15.0	
	140	29,100 psi	32,500 psi	46,300 psi	48,100 psi	15	10	15.0

INSTRUCTIONS FOR USE

WAXING AND SPRUING

Single Crowns	Multi-Units & Bridges			
A minimum of 0.5mm wax thickness is recommended. Use direct sprues, 8-10 gauge, (3.3-2.6 mm diameter) and 1/2" (12 mm) 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) and 1/2" (12mm) long 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 800°F (427°C) and hold for 30 minutes. Then raise the temperature to 1450°F (788°C) and hold for one 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 quartz crucible using a gas/oxygen torch with a multi-orifice tip. If you are using induction casting, set the machine for 2372°F (1300°C) casting temperature. Add 50% new metal to the cleaned buttons.

FINISHING Grind porcelain bearing surfaces with metal finishing carbide burs. Use moderate speed and light hand pressure. Blasting is not required. Clean in distilled water using an ultrasonic cleaner for ten minutes

DEGASSING Insert the casting in furnace at 1200°F (649°C). Then raise the temperature to 1800°F (982°C) without vacuum. Do not hold. Allow to bench cool. Opaque directly on the oxide.

OPAQUEING 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 YSF for pre-soldering. Use Solder 650 or 720 for post-soldering.