CLASSIC IV HIGH NOBLE YELLOW PORCELAIN ALLOY

CLASSIC IV, a high noble, 88% Au porcelain dental alloys is known for its unique qualities by technicians. CLASSIC IV has a deep yellow color that is perfect for cases with lingual collars or metal occlusion. Resistant to galling, CLASSIC IV is easy to finish and polishes to a beautiful luster.

PROPER	PROPERTIES		CHEMISTRY	
Melting F	Melting Range 1930° to 2110°F (Gold	88%
Coefficie	Coefficient of Thermal Expansion		Platinum	9.5%
	from 25°C to 500°C: 14		Indium	1.5%
	from 25°C to 600°C: 14.4x10-6K-		Contains less than 1% Silver, Iron, Rhenium	
Density	Density		Au & Pt group - 97.5%	
Grain Siz	e	12 microns	Classification - High Noble	
AFTER F	ORCELAIN FIRING			
Hardness	3	175 HV		
Tensile E	longation	11%		
Tensile Y	ield Strength	55,800 psi (385 MPa)		
Ultimate	Tensile Strength	67,800 psi (470 MPa)		
Modulus	of Elasticity	12.5 x 10 ⁶ psi (86,000 MPa)		
		PROCESSING T	ECHNIQUE	
VESTMENT	1/4" from top of investment.A phosphate-bonded, high heat investment with or without carbon content is recommendation.			
URNOUT	1300°F (705°C)			
IELTING AND ASTING	Extra winds of the casting arm are not required. Use a multi-orifice torch with 10 psi fue 20 psi oxygen. The alloy will fully puddle and form a ball before it is ready to cast. DO NOVERHEAT. DO NOT USE CASTING FLUX. The casting temperature is 2210°F (1210°C)			
DEVESTING AND Tinishing	Blast with aluminum oxide to remove investment particles. Finish with aluminum oxide (Refer to our <i>Finishing and Polishing Guide – Yellow Ceramic Alloys</i> for more information Reblast porcelain receiving surface with nonrecycled aluminum oxide. Clean in ultrasona 10 minutes in distilled water.			
XIDATION	Oxidize from 1200°F (650°C) to 1800°F (980°C) at 145°F/min (80°C/min) in air with 5 minutes hold time. Bench cool. Proceed with normal opaque technique.			
OLDERS AND FLUX	Pre-Solder: CPS So Post-Solder: 650 S Flux: Brown Fluorid	older		



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