

JA

HIGH NOBLE YELLOW TYPE 1 CROWN & BRIDGE ALLOY

JA has 83.3% Au, making it the softest crown and bridge alloy Jensen Dental manufactures. This high percentage of gold also offers a rich, brilliant yellow color. JA was designed specifically for all Type 1 applications, such as single surface inlays. Because JA is so soft, it is kind to opposing dentition and burnishes quickly and easily so margins can be tightly sealed.

PROPERTIES		CHEMISTRY	
Melting Range	1735° to 1815°F (945° to 990°C)	Gold	83.3%
Density	16.4 g/cm ³	Silver	12.5%
Hardness	70 HV	Copper	3.5%
Tensile Elongation	45%	Contains less than 1% Zinc, Iridium	
Tensile Strength	14,600 psi (100 MPa)	Au & Pt group - 83.3%	
Ultimate Tensile Strength	40,000 psi (275 MPa)	Classification - High Noble	

PROCESSING TECHNIQUE

SPRUIING	The direct method is recommended.
INVESTMENT AND BURNOUT	Gypsum bonded investment is recommended. The hygroscopic technique and a burnout temperature of 900°F (480°C) is recommended for inlays.
MELTING AND CASTING	Extra winds of the casting arm are not required. A gas/compressed air or gas/oxygen flame with 5 psi gas pressure and 10 psi oxygen pressure is recommended. JA will fully puddle and form a ball before it is ready to cast. DO NOT OVERHEAT. The casting temperature is 1900°F (1040°C).
DEVESTING AND FINISHING	Bench cool - quench when bottom of button turns dark. Remove castings from investment. Blast with aluminum oxide to remove investment particles and oxidation. Finish and polish using standard techniques.
SOLDER AND FLUX	Solder: 650 Fine Solder Flux: Brown Fluoride Flux

5001Y r2

