

SL-40

NOBLE YELLOW TYPE 3 CROWN & BRIDGE ALLOY

SL-40 is a 40% Au, 45% Ag crown and bridge alloy with a brilliant yellow color. SL-40 is ideal for just about any type of restoration, from single units to long-span bridges. It's known for its outstanding resistance to tarnishing, its low Vickers Hardness, and its burnishability, all which allow SL-40 to finish and polish with ease.

PROPERTIES	
Melting Range	1565° to 1750°F (850° to 955°C)
Density	12.7 g/cm ³
Hardness	140 HV
Tensile Elongation	18%
Tensile Yield Strength	71,200 psi (490 MPa)
Ultimate Tensile Strength	85,800 psi (590 MPa)

CHEMISTRY	
Silver	45%
Gold	40%
Copper	8.5%
Palladium	5%
Zinc	1%
Contains less than 1% Iridium	
Au & Pt group - 45%	
Classification - Noble	

PROCESSING TECHNIQUE

SPRUNG

The indirect method is recommended for multi-units. Use an 8 gauge runner bar with 10 gauge connectors. If preferred, the direct method may be used on both single units and small bridges. Use a 10 gauge sprue 1/4" (6mm) to 3/8" (9mm) long. Sprues longer than 3/8" (9mm) should have a reservoir 1/16" (1.5mm) from pattern. Patterns should be a maximum of 1/4" (6mm) from top of investment.

INVESTMENT AND BURNOUT

Either gypsum or phosphate bonded investment may be used following the manufacturer's instructions. The burnout temperature should be at least 900°F (480°C) and should not exceed 1200°F (650°C).

MELTING AND CASTING

Extra winds of the casting machine are not required. Use a multi-orifice torch with 5 psi gas and 10 psi oxygen. The alloy will fully puddle and form a ball before it is ready to cast. **DO NOT OVERHEAT.** The casting temperature is 1850°F (1010°C). Bench cool to a dull red heat before quenching.

DEVESTING AND FINISHING

Blast with aluminum oxide to remove investment particles and oxidation. Finish and polish using standard techniques.

SOLDER AND FLUX

Solder: 585 Fine Solder
Flux: Brown Fluoride Flux

5036Y r1



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