



CB2

TYPE III

YELLOW - CASTING - 40% GOLD

Ag=40%, Cu=9.7%, Au=40%, In=9.8%, Others=0.5%

- A most economical yellow casting alloy - attractive pale gold colour
- Meets NHS 33.3% precious alloy specification
- Good resistance to oral tarnish/corrosion

Properties:

MELTING RANGE	680-780°C. Cast at 860°C
DENSITY	12.0g/cm ³
HARDNESS	Softened 100 HV2.5 - Hardened 190 HV2.5
0.2%PROOF STRESS	Softened 277 MPa - Hardened 468 MPa
ELONGATION	Softened 63% - Hardened 21%

Working Procedure:

SPRUES

Use the indirect sprue technique
(3mm on crowns, 3.5mm on pontics, cross beams 4 - 4.5mm for bridges).

INVESTMENT

Use phosphate or gypsum bonded.

PRE-HEATING

580°C for 30 - 120 minutes dependent on the flask or cylinder size.

CASTING

Casting temperature is 860°C.

FINISHING

Air blast with aluminium oxide, or pickle, and then polish.

SOLDERING

Charles Booth 720°C yellow. CB2 has a low melting range, so heat carefully when soldering.

SOFTENING/ANNEALING

Fire at 625°C for 10 minutes and then quench immediately into water.

HARDENING

After softening, reheat to 325°C for 30 minutes and allow to bench cool.

PRODUCED TO NHS/MDD REQUIREMENTS AND COMPLIES WITH ISO 9693:2000