

instructions for use & technical data CopraBond K

technical data

product: CopraBond K

product type: non precious blank on CoCr base - type 4

product shape: metal discs in different diameter and thickness

CE-mark: **C€** 0483

applied standards: DIN EN ISO 22674:2006, type 4

manufacturing and testing according to DIN EN ISO 13485 / DIN EN ISO 9001:2000

annex V medical products guideline 93/42/EWG

veneer porcelain: all standard veneering porcelains with a thermal coefficient rate of 13,9-14,9

for non precious chrome cobalt alloys.

composition: Co 61,0% Cr 28,0% W 8,5% Mn 0,25% Fe <0,5% Si 1,65% C <0,1

density: 8,3g / cm³ vickers hardness: 285 HV 10

modul of elasticity: 190.000 MPa (N/mm- 2) thermal coefficient rate: 14,1 μ m/K (20 - 600 $^{\circ}$ C)

fracture strain: 10%

description

CopraBond K is a nickel- and beryllium free chrome-cobalt blank, specially designed for CAD/CAM applications. The material is very homogenous and lends itself to machining extremely good - either by milling or laser welding.

instructions for use:

removal of frameworks:

Cut out, fettle and smoothen the surfaces of milled frameworks with carbide burs or separating discs.

veneering with porcelain:

An oxidation firing is not necessary, if desired, please fire for 10 minutes at 980 °C without vacuum. Sandblast the frameworks with 110µ aluminium oxide and steam clean them afterwards. Please follow the instructions for use of your chosen veneering porcelain manufacturer.

soldering:

We recommend a chrome cobalt soldering metal for soldering. CopraBond K frames should not be soldered with gold or palladium solders. CopraBond K is easy to weld with a dental laser.

cleaning:

Please clean framework made from CopraBond K by steam cleaning or in distilled water by using an ultrasonic unit.

polishing:

Remove oxides after firing by blasting with gloss pearls.

Finish with rubber stones and polishing paste.