Colado® CC

Cobalt-Chromium Ceramic Alloy

Colado CC is a predominantly base alloy especially for ceramic and composite veneers.

Co	Cr	Mo	W	Ga	Nb	Fe	B	Si
59.0	25.5	5.5	5.0	3.2	<1.0	<1.0	<1.0	<1.0

Advantages

- **Wide range of indications, especially for implant superstructures and the press technique**
- **Outstanding bonding strength with veneering materials (ceramics & composites)**
- **Optimum melting and casting properties for a homogeneous microstructure**
- **Convenient processing and polishing properties**
- **Tested and certified biocompatibility (high corrosion resistance)**
- **Coordinated compatibility with the Ivoclar Vivadent product system**

Indications

PFM crowns, telescope and conus crowns, posts, short- and long-span bridges, implant superstructures, model casting

Technical Data

Colour	white
Type	5
Density (g/cm³)	8.5
Melting interval (°C)	1175-1385
Casting temperature (°C)	1450-1500
CTE 25-500 °C	14.2
Oxide firing °C/min./vacuum	950 / 1 / vacuum
Vickers hardness	360
0.2 % proof stress (MPa)	500
Modulus of elasticity (MPa)	198.000
Elongation (%)	9.0

Dental lab work by H.P. Oss, Innsbruck

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Certificate

Test material: Colado® CC

Composition in %	Co	Cr	Mo	W	Ga	Nb	Fe	B	Si
Colado® CC	59.0	25.5	5.5	5.0	3.2	<1.0	<1.0	<1.0	<1.0

Manufacturer

Ivoclar Vivadent AG, Bendererstrasse 2, FL-9494 Schaan, Principality of Liechtenstein

Corrosion resistance

The test was conducted according to the international regulations of ISO 22674 and ISO 10271: static immersion test through analytical determination of the metal ion release after a 7-day immersion.

Test results: The metal ion release of 7 days of immersion was not significant.

Testing facilities:
- Texas A&M Health Science Center, Mari Koike, DDS, Ph.D
- Medical Materials and Technology, University Hospital, Tübingen, Germany, Prof. Dr. Jürgen Geis-Gerstorfer

Cytotoxicity

The Agar Diffusion test determines the biological reactivity of cell culture on test material.

Test results: The test material is considered non-cytotoxic and meets the requirements of the Agar Diffusion test according to ISO 10993-5.

Amherst, March 2010

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