



GIALLOY CB Blank

Non – precious dental milling alloy
on Cobalt basis

CE 0297

Gialloy CB milling alloy, type 5

Metal-ceramic alloy Nickel and Beryllium free

- **Gialloy** – milling alloys are not susceptible to procedural errors like inclusions of foreign matter and shape distortion due to thermal tensions.
- **Gialloy** – milling alloys are highly corrosion resistant.
- **Gialloy** - milling alloys can be lasered

Processing instructions

Porcelain

Minimum thickness of alloy before firing porcelain is 0.2 mm.
Before applying the ceramic, fire at 960°C, sandblast with 110 µm aluminum oxide and clean carefully with steamer.
Long term cooling after firing is generally recommended.

Caution

Never put **Gialloys** in acid bath.

Chemical composition:

Co [%]	C [%]	Cr [%]	Si [%]	W [%]	Fe [%]	Mn [%]
~ 61,5	< 0,1	28	1,7	8,5	< 0,5	0,25

Physical properties:

Hardness: (HV 10)	285
Elongation: (%)	10
Tensile strength: (MPa)	845
0,2% Elastic limit: (MPa)	620
Modulus of elasticity (GPa)	ca. 190
Density (g/cm ³)	8,3

Coeff. of thermal Expansion (20° - 600° C) (10 ⁻⁶ /K)	14,1
Melting range (°C) (Solidus/Liquidus)	1390 – 1415
Before applying the ceramic, fire at	960°C



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Gialloy CB Blanks are available in the following sizes:

Ø 99,5 mm without step Height: 8 / 10 / 12 / 14 / 15 / 18 mm

Ø 98,3 mm with step Height: 8 / 10 / 12 / 13,5 / 15 / 18 / 24,5 mm

All data and recommendations are guidelines only and based on our technical experience. The above recommendations are given to the best of our knowledge. We grant the quality of our products according to our specification. Any further liability cannot be accepted since the proper application of our products is outside our control