



CC DISK NF CoCr

CoCr based disc for CAD/CAM system, free of nickel and beryllium which fulfils the requirement of the standard EN ISO 22674 for non-precious alloys and ISO 9693-1 for alloys intended for porcelain fused to metal restorations. It is made of biocompatible alloy, which is easy to polish, has small amount of oxides and is therefore extremely suitable for porcelain. Ideal coefficient of thermal expansion allows usage of wide range of different ceramics.



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Composition (Mass-%):		Properties		
Co	63,0	Type	4	
Cr	24,0	Vickers hardness	HV 10	285
W	8,0	Coefficient of thermal expansion	25 - 500 °C	$13,9 \times 10^{-6} K^{-1}$
			20 - 600 °C	$14,0 \times 10^{-6} K^{-1}$
Mo	3,0	0,2 % Elongation limit	Rp 0,2	490 MPa
Si	1,0	E-modul	E	ca. 210.000 MPa
Nb, C	< 1	Ductile yield	A5	10 %

ORDER NR.	THICKNESS
1900	8 mm
1901	10 mm
1902	12 mm
1903	13,5 mm
1904	15 mm
1905	18 mm

CC DISK Ti2

CC DISK Ti2 is made of titanium grade 2. It is used in CAD/CAM milling machines for production of crowns, short range bridges, as for implant-based single unit suprastructures. CC DISK Ti2 meets demands of the standard EN ISO 22674.



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Composition (Mass-%):		Properties		
Ti	> 99	Alloy type according EN ISO 22674	3	
Fe, C	< 0,1	Vicker's hardness	HV 10	145
			Coefficient of thermal expansion	25 - 500 °C
		Density	4,51 g/cm ³	
		0,2 % Elongation limit	Rp 0,2	275 MPa (N/mm ²)
		Tensile strenght	Rm	450 MPa (N/mm ²)
		Ductile yield	A5	20 %

ORDER NR.	THICKNESS
1916	10 mm
1917	12 mm
1918	13,5 mm
1919	15 mm
1920	18 mm



CC DISK Ti5

CC DISK Ti5 is made of titanium grade 5. It is used in CAD/CAM milling machines for production of rigid and tough appliances like single crowns, large bridges and implant-based suprastructures. CC DISK Ti5 meets the demand of the standard EN ISO 22674.



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Composition (Mass-%):		Properties		
Ti	89,8	Alloy type according EN ISO 22674		5
Al	6	Vicker's hardness	HV 10	353
V	4	Coefficient of thermal expansion	25 - 500 °C	9,8 x 10 ⁻⁶ K ⁻¹
Fe	< 1	Density		4,43 g/cm ³
		0,2 % Elongation limit	Rp 0,2	828 MPa (N/mm ²)
		Tensile strenght	Rm	895 MPa (N/mm ²)
		Ductile yield	A5	10 %

ORDER NR.	THICKNESS
1908	10 mm
1909	12 mm
1910	13,5 mm
1911	15 mm
1912	18 mm
1921	20 mm
1922	22 mm
1923	25 mm

CC DISK Zr

CC DISK Zr disc is made of biocompatible pre-sintered ZrO₂. It has excellent mechanical properties, chemical stability, biocompatibility and translucency. It is intended for use in CAD/CAM milling machines for production of full anatomical restorations, as for classical frames ment for porcelain veneering. CC DISK Zr meets the demands of the standard for dental ceramic EN ISO 6872.



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Composition (mass-%) and characteristics:	CC DISK Zr	CC DISK Zr coloured	CC DISK Zr HT	CC DISK Zr HT coloured
ZrO ₂	Rest	Rest	Rest	Rest
Y ₂ O ₃	4,9 - 5,4	4,9 - 5,4	5,10 - 5,60	4,8 - 5,6
Al ₂ O ₃	0,15 - 0,35	0,15 - 0,35	0,03 - 0,07	0,03 - 0,07
Other	0-0,07	0,33	0,03	0,13
Density g/cm ³	6,05	6,05	6,09	6,09
Flexural strength	1200 ± 200 MPa	1000 ± 200 MPa	1000 ± 200 MPa	1000 ± 200 MPa
CTE 25°-1000 °C	10,7 x 10 ⁻⁶ K ⁻¹	10,7 x 10 ⁻⁶ K ⁻¹	10,7 x 10 ⁻⁶ K ⁻¹	10,7 x 10 ⁻⁶ K ⁻¹
Colour:		A1, A2, A3		A1, A2, A3

ORDER NR.	THICKNESS	COLOUR
CC DISK Zr		
1950 + colour	10 mm	colourless, A1, A2, A3
1951 + colour	12 mm	colourless, A1, A2, A3
1952 + colour	14 mm	colourless, A1, A2, A3
1953 + colour	16 mm	colourless, A1, A2, A3
1954 + colour	18 mm	colourless, A1, A2, A3
1955 + colour	20 mm	colourless, A1, A2, A3
1956 + colour	22 mm	colourless
1957 + colour	25 mm	colourless, A1, A2, A3
CC DISK Zr HT		
1950HT + colour	10 mm	colourless, A1, A2, A3
1951HT + colour	12 mm	colourless, A1, A2, A3
1952HT + colour	14 mm	colourless, A1, A2, A3
1953HT + colour	16 mm	colourless, A1, A2, A3
1954HT + colour	18 mm	colourless, A1, A2, A3
1955HT + colour	20 mm	colourless, A1, A2, A3
1956HT + colour	22 mm	colourless
1957HT + colour	25 mm	colourless, A1, A2, A3



CC DISK Zr Smile

CC DISK Zr Smile disc is made of biocompatible pre-sintered ZrO_2 . It has excellent mechanical properties, chemical stability, biocompatibility and translucency. It is intended for use in CAD/CAM milling machines for production of full anatomical restorations, as for classical frames ment for porcelain veneering that not exceed 3 units. Due to its exceptional light transmission of 49 % at 1 mm and translucency, which is close to a lithium disilicate, is specifically designed for aesthetic solutions in anterior as well as posterior area! CC DISK Zr Smile meets the demands of the standard for dental ceramic EN ISO 6872. Dimensions 14 and 18 mm are available also in colours A1, A2, A3, A3.5, B2, B3, C2 and D2. When ordering, add the number of the desired colour at the end of the order number (for example: 1952SA1).



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Composition (mass-%) and characteristics:	CC DISK Zr smile
ZrO ₂	Rest
Y ₂ O ₃	9.30 ± 0.30
Al ₂ O ₃	< 5.0
Other	< 0.1
Density g/cm ³	> 6.0
Flexural strength	600 ± 100 MPa
CTE 25° - 1000 °C	10,4 x 10 ⁻⁶ K ⁻¹

ORDER NR.	THICKNESS
1951S	12 mm
1952S	14 mm
1953S	16 mm
1954S	18 mm
1955S	20 mm
1957S	25 mm

CC DISK Zr Multicolour

CC DISK Zr Multicolour is made of biocompatible pre-sintered ZrO_2 . It has excellent mechanical properties, chemical stability, biocompatibility and translucency. It is intended to be used in CAD/CAM milling machines for production of full anatomical restorations, as for classical frames ment for porcelain veneering. It is available in following colour options: A2 with colour gradient A1 - A3 and A3 with colour gradient A2 - A3.5. CC DISK Zr Multicolour meets the demands of the standard for dental ceramic EN ISO 6872.



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Composition (mass-%) and characteristics:			
ZrO ₂	rest	Density g/cm ³	> 6.05
Y ₂ O ₃	5.15 ± 0.20	Flexural strength	1000 ± 200 MPa
Al ₂ O ₃	< 0.1	KTE 25 - 1000 °C	10,7 x 10 ⁻⁶ K ⁻¹
Other	0.04 - 0.1	Colour	A2 (A1 - A3), A3 (A2 - A3.5)

ORDER NUMBER	THICKNESS	COLOUR
1952MCA2	14 mm	A2
1952MCA3	14 mm	A3
1954MCA2	18 mm	A2
1954MCA3	18 mm	A3
1956MCA2	22 mm	A2
1956MCA3	22 mm	A3



CC DISK WAX

CC DISK WAX is made from temperature stable micro wax which burns out without residues. The stability of the wax composition allows the milling cutter to mill the narrowest space with high efficiency and gives smooth and homogeneous surface. The dropping point of 120 °C excludes the danger of chipset melting, therefore it can be easily cleaned from the milling unit.



ORDER NUMBER	THICKNESS	TYPE
1980	20 mm	hard - beige colour
1981	20 mm	normal - grey colour
1982	14 mm	normal - grey colour

CC DISK PMMA

CC DISK PMMA is used in CAD/CAM milling machines for production of temporary restorations, gingiva formers directly after implantation, for study try-ins and for checking the occlusal contacts before the final restoration (out of Zr or CoCr) is produced.



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ORDER NR.	THICKNESS	COLOUR
1938A3	15 mm	A3 - 3-Layer
1939A3	18 mm	A3 - 3-Layer
1931 + colour	12 mm	A1, A2, A3, B1, B2, B3, E1, E2, BL1, BL2, BL3
1932 + colour	14 mm	
1933 + colour	15 mm	
1934 + colour	16 mm	
1935 + colour	18 mm	
1936 + colour	20 mm	
1937 + colour	25 mm	

Properties		
Vicker's hardness		26,6
Flexural strength		114 MPa (N/mm ²)
E-modulus	E	2771 MPa (N/mm ²)



CC DISK PMMA Transparent

CC DISK PMMA Transparent is used in CAD/CAM milling machines for production of reduced frameworks for casting, full or partial constructions for press ceramic and for try-ins before the production of final restorations. Burns out without residues.



ORDER NR.	THICKNESS
1963	12 mm
1964	14 mm
1965	15 mm
1966	16 mm
1967	18 mm
1968	20 mm
1969	25 mm

Properties

Made of 100 % organic material. Burns out without residue.

CC DISK PMMA Pink

CC DISK PMMA Pink is used in CAD/CAM milling machines for production of base for total and partial prosthesis and for immediate load denture on the dental implants as a long term provisional solution.



ORDER NR.	THICKNESS
1960	25 mm
1961	27 mm
1962	30 mm

Properties

Vicker's hardness		26,6
Flexural strenght		114 MPa (N/mm ²)
E-modulus	E	2771 MPa (N/mm ²)
Residual monomer		<1 %.

CC DISK PMMA X-Ray Opaque

CC DISK PMMA X-Ray Opaque is used in CAD/CAM milling machines for making x-ray visible teeth on implant diagnostic template to see the placement of the teeth while planning the position of the dental implant.



ORDER NR.	THICKNESS
1970	12 mm
1971	14 mm
1972	15 mm
1973	16 mm
1974	18 mm
1975	20 mm
1976	25 mm

Properties

Contains x-ray visible powder.

