NON-PRECIOUS METAL DENTAL ALLOYS

ALLOYS • CAD/CAM BLANKS • DENTAL POWDER

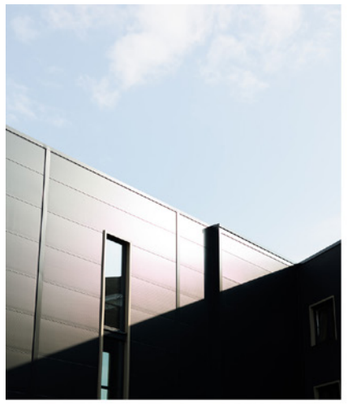
ADOR
DENTAL SOLUTIONS

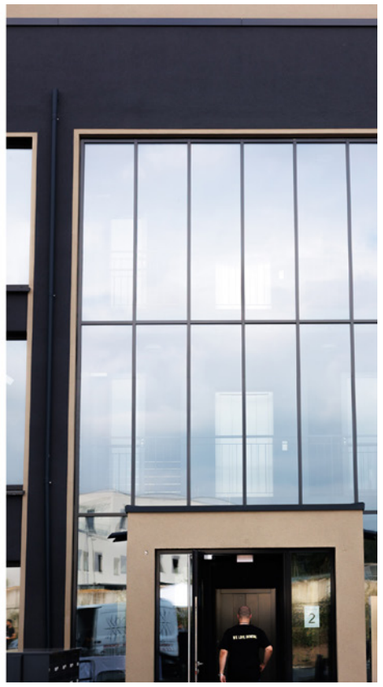
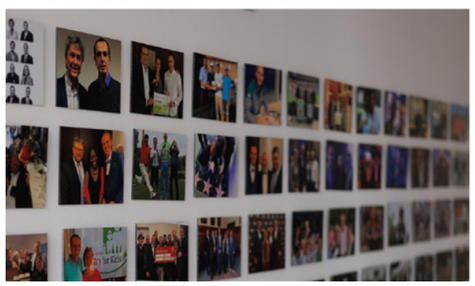
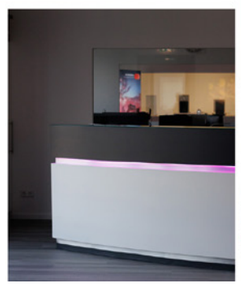
Ador Dental GmbH | Zum Jägerhof 2 | 40724 Hilden, Germany

WELCOME AT ADOR!
WELCOME AT THE DENTAL CAMPUS

Our new state-of-the-art Dental Campus in Giesenheide provides us with fantastic new facilities—for our production, research department, and offices, as well as for events and, of course, for the It's for Kids Foundation. We are thrilled to continue our work at this location and are convinced that the Dental Campus is the perfect place for us to continue to evolve and to make this evolution and re-alignment of the company visible within the dental industry.

A GLIMPSE...

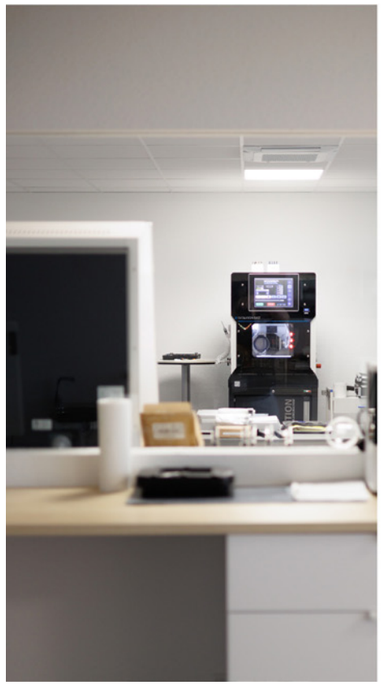
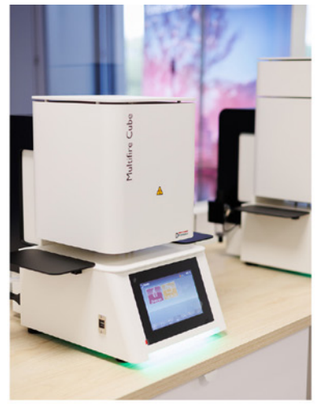


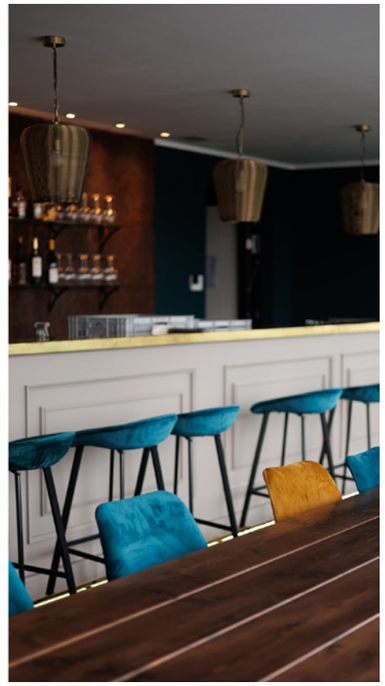
COURSES & SEMINARS

Because we here at the Dental Campus have many partners—in addition to our own team—who are recognized as experts in the dental industry, we have decided to offer various seminars and training courses.

Our Dental Campus is a place where people come together to share knowledge, network and acquire new skills.


The Dental Campus is fully equipped. We use state-of-the-art technologies and equipment from our partners DGSHAPE, Santa Barbara, Mihm Vogt, ID-Gerätebau, TRUMPH, as well as other devices and tools from leading manufacturers.

Our rooftop terrace is one of the highlights of the Dental Campus and is the perfect place to relax and enjoy interesting conversations.

DENTAL ALLOYS
PARTIAL DENTURE & METAL CERAMIC ALLOYS

ADORBOND CC

A cobalt-based dental metal-ceramic alloy. It‘s free of nickel, cadmium, beryllium and lead and complies with EN ISO 22674 type 4 for applications with thin cross-sections that are exposed to very high forces.

Composition in %:
Co 62,5 · Cr 24,6 · Mo 2,9 · W 8,5 · Si 1,3
Elements < 1 %: Nb, Mn, Fe, N

- RRP: 299,90 € /kg

ADORBOND CN

A nickel - chrome based bonding alloy. It‘s free of cadmium, beryllium and lead and complies with EN ISO 22674 type 3 for fixed multi-unit dentures.

Composition in %:
Ni 62,7 · Cr 24,4 · Mo 11,0 · Si 1,6
Elements < 1 %: Nb, Mn, Fe

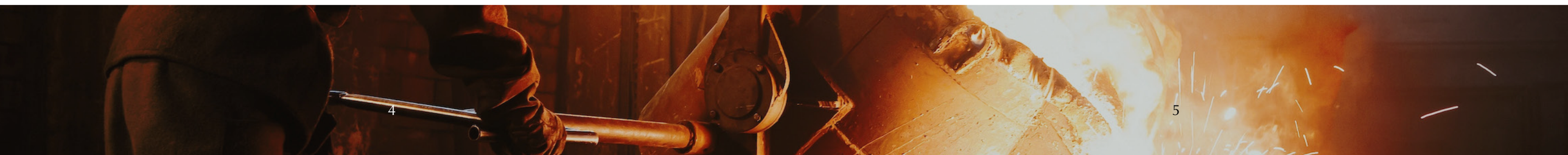
- RRP: 199,90 € /kg

ADORON LX

A cobalt- based laser-capable high-quality partial denture alloy. It‘s free of nickel, cadmium, beryllium and lead and complies with EN ISO 22674 type 5 for applications where parts of the device require a combination of high stiffness and yield strength.

Composition in %:
Co 62,5 · Cr 29,5 · Mo 5,5 · Si 1,3
Elements < 1 %: Nb, Mn, Fe, C, N

- RRP: 179,90 € /kg



DENTAL ALLOYS
PARTIAL DENTURE & METAL CERAMIC ALLOYS

ADORON FH

A cobalt-based spring-hard all-round partial denture alloy. It‘s free of nickel, cadmium, beryllium and lead and complies with EN ISO 22674 type 5 for applications where parts of the device require a combination of high stiffness and yield strength.

Composition in %:
Co 62,5 · Cr 30,0 · Mo 5,1 · Si 1,0 · Mn 1,0
Elements < 1 %: Nb, N, Fe, C

- RRP: 159,90 € /kg

Technical Data (Reference Value:)	ADORBOND® CC	ADORBOND® CN	ADORON® LX	ADORON® FH
Density (g/cm³)	8,3	8,2	8,2	8,2
Vickers hardness (HV10)	285	180	365	375
CTE 25–500 °C (10^{-6} K^{-1})	13,9	13,9	–	–
CTE 20–600 °C (10^{-6} K^{-1})	14,0	14,0	–	–
Melting interval (°C)	1.304–1.369	1.250–1.340	1.295–1.345	1.260–1.320
Casting temperature (°C)	ca. 1.470	ca. 1.440	1.450	ca. 1.440
Yield point $R_{p\,0,2}$ MPa	490	330	640	620
Elastic modulus (N/mm²)	ca. 210.000	ca. 205.000	ca. 220.000	ca. 220.000
Elongation at break A_5 (%)	10	15	7,5	4,5

DENTAL ALLOYS
SOLDER AND LASER-WIRE

ADOR CC SOLDER

- Universal Solder for ADORBOND® CC, CN and ADORON® FH, LX - in bar/stick form ø 1,5 mm x ca. 75 mm length
- suitable for all non-precious metal dental alloys

Co 62,0 % · Cr 29,5 % · Si 3,0 % · Mo 4,5 %
Elements < 1 %: B, C, Fe, Mn

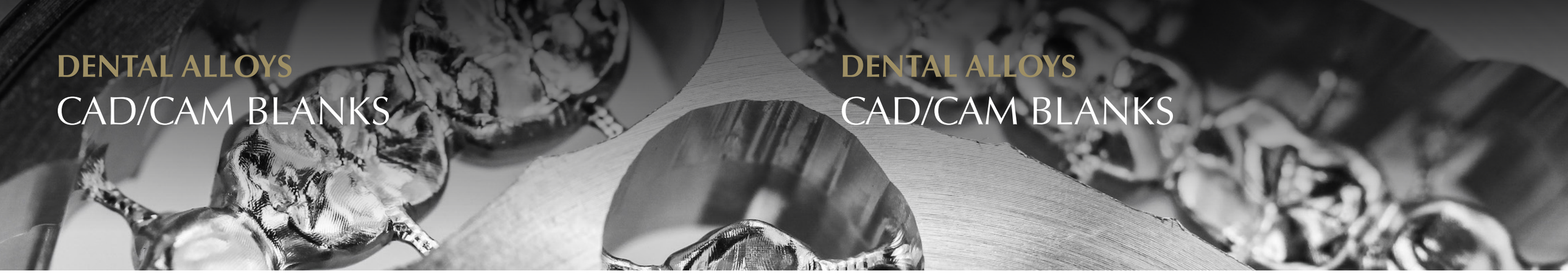
- RRP: 5,90 €/g (Package contains 5g)

ADOR LASER-WIRE

- suitable for all non-precious metal dental alloys
- available in two thicknesses: ø 0,5 mm, ø 0,35

Co 65,2 % · Cr 27,7 % · Mo 5,8 %
Elemente < 1 %: Si · Mn · Fe · N

- RRP: 49,90 € – 54,90 € /2m

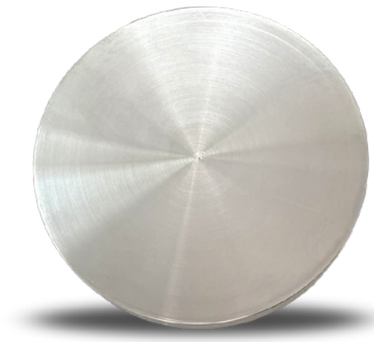


DENTAL ALLOYS
CAD/CAM BLANKS

ADORBOND BC BLANK

Composition in %:
Co 61,7 · Cr 27,8 · W 8,5 · Si 1,6
Elements < 1%: Fe, Mn, Nb, N

ADORBOND® BC Blank is a cobalt-based dental metal-ceramic alloy. ADORBOND® BC Blank is free of nickel, cadmium, beryllium and lead and corresponds to type 4 according to EN ISO 22674 for applications with thin cross-sections that are exposed to very high forces, e.g. removable partial dentures, clasps, thin veneered single crowns, fixed full-arch dentures or bridges with small cross-sections, bars, attachments and implant-supported superstructures.



Technical Data:

Density (g/cm3):	8,4
Vickershardness (HV 10):	290
CTE:	
25 – 500 °C (10-6 K-1)	14,1
20 – 600 °C (10-6 K-1)	14,4
Highest recommended Temperature (°C):	980
0,2-% Yield point (MPA):	400
Elastic modulus (GPa):	195
Elongation at Break A5 (%):	8
Tensile strength (MPa):	560

Size (mm) - RRP (Piece)
98,5 x 8 - 129,90 €
98,5 x 10 - 139,90 €
98,5 x 12 - 149,90 €
98,5 x 13,5 - 159,90 €
98,5 x 15 - 169,90 €
98,5 x 16 - 179,90 €
98,5 x 18 - 189,90 €
98,5 x 20 - 199,90 €
98,5 x 24 - 209,90 €

ADORBOND CV BLANK

Composition in %:
Co 63,0 · Cr 29,0 · Mo 5,8 · Si 1,2
Elements < 1%: Fe, Mn, Nb

Adorbond CV Blank is a cobalt-based dental metal-ceramic alloy. Adorbond CV Blank is free of nickel, cadmium, beryllium and lead and complies with EN ISO 22674 type 4 for applications with thin cross-sections that are exposed to very high forces, e.g. removable partial dentures, clasps, thin veneered single crowns e.g. removable partial dentures, clasps, thin veneered single crowns, fixed full-arch dentures or bridges with small cross-sections, bars, fixings, cross-sections, bars, attachments and implant-supported superstructures.

Technical Data:

Density (g/cm3):	8,2
Vickershardness (HV 10):	330
CTE:	
25 – 500 °C (10-6 K-1)	14,2
20 – 600 °C (10-6 K-1)	14,4
Highest recommended Temperature (°C):	980
0,2-% Yield point (MPA):	610
Elastic modulus (GPa):	200
Elongation at break A5 (%):	6,5
Tensile strength (MPa):	610

Size (mm) - RRP (Piece)
98,5 x 8 - 129,90 €
98,5 x 10 - 139,90 €
98,5 x 12 - 149,90 €
98,5 x 13,5 - 159,90 €
98,5 x 15 - 169,90 €
98,5 x 16 - 179,90 €
98,5 x 18 - 189,90 €
98,5 x 20 - 199,90 €
98,5 x 24 - 209,90 €

DENTAL POWDER

ADORBOND CC PLUS POWDER

Composition in %:
Co 63,6 · Cr 24,8 · W 5,5 · Mo 5,0 · Si 1,1 · Elements < 1%: Fe, Mn, Nb

ADORBOND® CC PLUS is a cobalt-based dental metal-ceramic alloy. ADORBOND® CC PLUS powder is free of nickel, cadmium, beryllium and lead and conforms to EN ISO 22674 type 5 for applications where parts of the appliance require a combination of high stiffness and yield strength, e.g. thin removable partial dentures, parts with thin cross-sections and clasps. ADORBOND® CC PLUS can be used both as a partail denture alloy and as a metal-ceramic alloy and is available in two grain sizes: 10-30 µm and 15-45 µm.

Technical Data:	**15/45 µm**	**10/30 µm**
Density (g/cm3):	8,2	8,2
Vickers hardness (HV 10):	520	520
CTE:		
25 – 500 °C (10-6 K-1)	14,3	14,3
20 – 600 °C (10-6 K-1)	14,5	14,5
Maximum Firing Temperature (°C):	980	980
0,2-% Yield Point R (MPA):	1100	1150
Elastic modulus (N/mm2):	275	275
Elongation at break (%)	5	5
tensile strength (MPA):	1300	1350

- **RRP: 179,90 € /kg (15-45 µm)**
- **RRP: 229,90 € /kg (10-30 µm)**

Bottle/Package contains 5kg

DENTAL POWDER

ADORBOND BC POWDER

Composition in %
Co 61,7 · Cr 27,8 · W 8,5 · Si 1,6 · Elements < 1%: Fe, Mn, Nb, N

ADORBOND® BC Powder is a cobalt-based dental metal-ceramic alloy. ADORBOND® BC Powder is free of nickel, cadmium, beryllium and lead and conforms to EN ISO 22674 type 5 for applications where parts of the appliance require a combination of high stiffness and yield strength, e.g. thin removable partial dentures, parts with thin cross-sections and clasps. ADORBOND® BC powder can be used both as a partial denture alloy and as a metal-ceramic alloy and is available in two grain sizes: 10-30 µm and 15-45 µm.

Technical Data :	**15/45 µm**	**10/30 µm**
Density (g/cm3):	8,3	8,4
Vickers hardness (HV 10):	285	290
CTE:		
25 – 500 °C (10-6 K-1)	14,1	14,1
20 – 600 °C (10-6 K-1)	14,4	14,4
Maximum Firing Temperature (°C):	980	980
0,2-% Yield Point R (MPA):	1120	1190
Elastic Modulus (N/mm2):	236	236
Elongation at break (%):	5	5
tensile strength (MPA):	1200	1290

- **RRP: 199,90 € /kg (15-45 µm)**
- **RRP: 249,90 € /kg (10-30 µm)**

Bottle/Package contains 5kg

DENTAL POWDER

ADORBOND CV POWDER

Composition in %:
Co 63,0 · Cr 29,0 · Mo 5,8 · Si 1,2 · Elements < 1%: Fe, Mn, Nb

Adorbond CV Powder is a cobalt-based dental metal-ceramic alloy. It is free of nickel, cadmium, beryllium, and lead, and complies with EN ISO 22674 Type 5 for applications where components of the device require a combination of high stiffness and yield strength, e.g., thin removable partial dentures, components with thin cross-sections, and clasps. It can be used both as a model casting alloy and as a metal-ceramic alloy and is available in two grain sizes: 10–30 µm and 15–45 µm.

Technical Data:	**15/45 µm**	**10/30 µm**
Density (g/cm3):	8,2	8,2
Vickers hardness (HV 10):	370	370
CTE:		
25 – 500 °C (10-6 K-1)	14,2	14,2
20 – 600 °C (10-6 K-1)	14,4	14,4
Maximum Firing Temperature (°C):	980	980
0,2-% Yield Point R (MPA):	780	780
Elastic modulus (N/mm2):	200	200
Elongation at break A5 (%):	12	12
tensile strength (MPA):	1290	1290

- **RRP: 179,90 € /kg (15-45 µm)**
- **RRP: 229,90 € /kg (10-30 µm)**

Bottle/Package contains 5kg

DENTAL POWDER

ADORBOND CN POWDER

Composition in %:
Ni 62,4 · Cr 25,0 · Mo 11,0 · Si 1,6 · Elements < 1%: Fe, Mn, Nb,

Adorbond CN Powder is a nickel-based dental metal-ceramic alloy. Adorbond CN Powder is free of cadmium, beryllium, and lead and complies with EN ISO 22674 Type 5 for applications where components of the device require a combination of high stiffness and yield strength, e.g., thin removable partial dentures, components with thin cross-sections, and clasps. Adorbond CN Powder can be used both as a model casting alloy and as a metal-ceramic alloy and is available in two particle sizes: 10–30 µm and 15–45 µm.

Technical Data:	**15/45 µm**	**10/30 µm**
Density (g/cm3):	8,2	8,2
Vickers hardness (HV 10):	200	200
CTE:		
25 – 500 °C (10-6 K-1)	13,9	13,9
20 – 600 °C (10-6 K-1)	14,1	14,1
Maximum Firing Temperature (°C):	980	980
0,2-% Yield Point R (MPA):	623	623
Elastic modulus (N/mm2):	183	178
Elongation at break A10 (%):	16,3	22,4
tensile strength (MPA):	1013	1033

- **RRP: 99,90 € /kg (15-45 µm)**
- **RRP: 109,90 € /kg (10-30 µm)**

Bottle/Package contains 5kg

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