

STARBOND Ti5 DISC

Milling disc made of grade 5 „ELI“ (Extra Low Interstitial) titanium alloy TiAl6V4.

- › Composition in percent by mass
Ti: 89.4 % Al: 6.2 % V: 4 % N, C, H, Fe, O: <0.4 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- › deal mechanical properties, manufactured according to ISO 5832-3
- › Excellent bonding with ceramics for titanium
- › Biocompatible and corrosion-resistant
- › Particularly patient friendly due to low thermal conductivity
- › Perfect suitable for implant-supported restorations, superstructures, bars

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	837 MPa	Density	4,4 g/cm ³
Ultimate tensile strength	921 MPa	Schmelzpunkt	1640-1650 °C
Elongation	15 %	CTE (20-600 °C)	10.3 x 10 ⁻⁶ K ⁻¹
Vickers hardness	330HV5/30	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
8 mm x 98.3 mm		136508
10 mm x 98.3 mm		136510
12 mm x 98.3 mm		136512
13.5 mm x 98.3 mm		136513
15 mm x 98.3 mm	with edge	136515
16 mm x 98.3 mm		136516
18 mm x 98.3 mm		136518
25 mm x 98.3 mm		136525
30 mm x 98.3 mm		136530
8 mm x 99.5 mm		136008
10 mm x 99.5 mm		136010
12 mm x 99.5 mm		136012
14 mm x 99.5 mm	without edge	136013
15 mm x 99.5 mm		136015
16 mm x 99.5 mm		136016
18 mm x 99.5 mm		136018
25 mm x 99.5 mm		136025
30 mm x 99.5 mm		136030



STARBOND Ti4 DISC

Milling disc made of pure titanium (Grade 4) with increased oxygen content.

- › Composition in percent by mass
Ti: >99 % N, C, H, Fe, O: <1 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Ideal for example for the production superstructures, bars and partial dentures
- › Perfect milling results
- › Excellent bonding with ceramics for titanium
- › Biocompatible and corrosion-resistant
- › Particularly patient friendly due to low thermal conductivity

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	504 MPa	Density	4,5 g/cm ³
Ultimate tensile strength	599 MPa	Schmelzpunkt	1645-1660 °C
Elongation	23.5 %	CTE (20-600 °C)	9.7 x 10 ⁻⁶ K ⁻¹
Vickers hardness	>200 HV5/30	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
8 mm x 98.3 mm		135508
10 mm x 98.3 mm		135510
12 mm x 98.3 mm		135512
13.5 mm x 98.3 mm		135513
15 mm x 98.3 mm	with edge	135515
16 mm x 98.3 mm		135516
18 mm x 98.3 mm		135518
25 mm x 98.3 mm		135525
30 mm x 98.3 mm		135530
8 mm x 99.5 mm		135008
10 mm x 99.5 mm		135010
12 mm x 99.5 mm		135012
14 mm x 99.5 mm	without edge	135013
15 mm x 99.5 mm		135015
16 mm x 99.5 mm		135016
18 mm x 99.5 mm		135018
25 mm x 99.5 mm		135025
30 mm x 99.5 mm		135030



NON-PRECIOUS METAL MILLING DISCS (NPM)

Dental alloys already proven in conventional dental technology are also available as milling blanks. The same alloy components and compositions with excellent processing properties allows the user to work in one alloying system.



STARBOND EASY DISC

CoCrW milling disc outstanding for manufacturing of crowns, bridges, frameworks, telescopes, bars, attachments, implant-supported superstructures. Starbond Easy Disc is based on a proven veneering alloy already used in conventional casting technique.

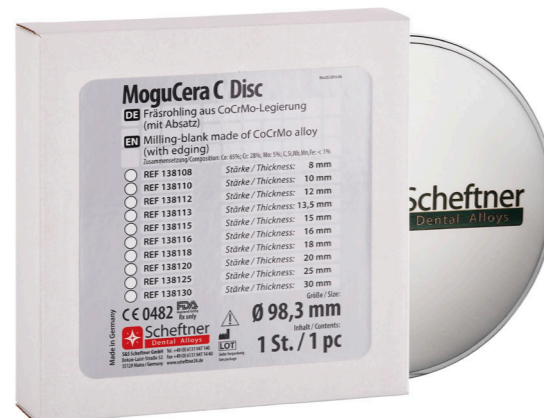
- Free of nickel, beryllium, cadmium and lead
- Type 4 according to DIN EN ISO 22674
- Composition in percent by mass
Co: 61 % Cr: 27.5 % W: 8.5 % Si: 1.6% C, Mn, Fe: <1 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- Medium hardness of 289 HV 10
- Excellent metal-ceramic bonding
- No cooling phase required, depending on the ceramics
- Biocompatible and corrosion-resistant
- Easy polishing
- Laser weldable
- Suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	416 MPa	Density	8.6 g/cm ³
Ultimate tensile strength	663 MPa	CTE (20-500 °C)	14.3 x 10 ⁻⁶ K ⁻¹
Elongation	18 %	CTE(20-600 °C)	14.6 x 10 ⁻⁶ K ⁻¹
Elastic modulus	191 GPa	Laser weldable	Yes
Vickers hardness	289 HV 10	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
8 mm x 98.3 mm	with edge	140508
10 mm x 98.3 mm		140510
12 mm x 98.3 mm		140512
13.5 mm x 98.3 mm		140513
15 mm x 98.3 mm		140515
16 mm x 98.3 mm		140516
18 mm x 98.3 mm		140518
20 mm x 98.3 mm		140520
25 mm x 98.3 mm		140525
30 mm x 98.3 mm		140530
8 mm x 99.5 mm	without edge	140008
10 mm x 99.5 mm		140010
12 mm x 99.5 mm		140012
14 mm x 99.5 mm		140013
15 mm x 99.5 mm		140015
16 mm x 99.5 mm		140016
18 mm x 99.5 mm		140018
20 mm x 99.5 mm		140020
25 mm x 99.5 mm		140025
30 mm x 99.5 mm		140030



MOGUCERA C DISC

CoCrMo milling disc with excellent properties for the manufacture of crowns, bridges, frameworks, telescopes, bars, attachments, implant supported superstructures. MoguCera C Disc is based on a non-precious ceramic alloy already used in the conventional casting technology.

- Free of nickel, beryllium, cadmium and lead
- Type 4 according to DIN EN ISO 22674
- Composition in percent by mass
Co: 65 % Cr: 28 % Mo: 5 % C, Si, Nb, Mn, Fe: <1 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- Medium hardness of 288 HV 10
- Excellent metal-ceramic bonding
- No cooling phase required, depending on the ceramics
- Biocompatible and corrosion-resistant
- Easy to work with and very easy to polish
- Laser weldable
- Suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	413 MPa	Density	8.3 g/cm ³
Ultimate tensile strength	597 MPa	CTE (20-500 °C)	14.5 x 10 ⁻⁶ K ⁻¹
Elongation	12 %	CTE (20-600 °C)	14.8 x 10 ⁻⁶ K ⁻¹
Elastic modulus	206 GPa	Laser weldable	Yes
Vickers hardness	288 HV 10	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
8 mm x 98.3 mm	with edge	138108
10 mm x 98.3 mm		138110
12 mm x 98.3 mm		138112
13.5 mm x 98.3 mm		138113
15 mm x 98.3 mm		138115
16 mm x 98.3 mm		138116
18 mm x 98.3 mm		138118
20 mm x 98.3 mm		138120
25 mm x 98.3 mm		138125
30 mm x 98.3 mm		138130
8 mm x 99.5 mm	without edge	138008
10 mm x 99.5 mm		138010
12 mm x 99.5 mm		138012
14 mm x 99.5 mm		138013
15 mm x 99.5 mm		138015
16 mm x 99.5 mm		138016
18 mm x 99.5 mm		138018
20 mm x 99.5 mm		138020
25 mm x 99.5 mm		138025
30 mm x 99.5 mm		138030



STARBOND COS DISC BASIC

CoCrWMo milling disc from our proven and successful product line Starbond CoS. This high-end product is specially designed for industrial milling units and is particularly suitable for the manufacture of crowns, bridges, frameworks, telescopes, bars, attachments, implant-supported superstructures.

- Free of nickel, beryllium, cadmium and lead
- Type 4 according to DIN EN ISO 22674
- Composition in percent by mass
Co: 59 % Cr: 25 % W: 9.5 % Mo: 3.5 % Si: 1 % C, Fe, Mn, N: <1 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- Excellent CTE of 14.2 ensures flexibility in ceramic selection
- No cooling phase required
- Excellent metal-ceramic bonding and biocompatible
- Easy polishing, Laser weldable, Suitable for dry and wet milling
- Biocompatible and corrosion-resistant

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	441 MPa	Density	8.8 g/cm ³
Ultimate tensile strength	639 MPa	CTE (20-500 °C)	13.9 x 10 ⁻⁶ K ⁻¹
Elongation	14 %	CTE (20-600 °C)	14.2 x 10 ⁻⁶ K ⁻¹
Elastic modulus	235 GPa	Laser weldable	Ja
Vickers hardness	281 HV 10	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
8 mm x 98.3 mm	with edge	133514
10 mm x 98.3 mm		133516
12 mm x 98.3 mm		133513
13.5 mm x 98.3 mm		133511
15 mm x 98.3 mm		133517
16 mm x 98.3 mm		133518
18 mm x 98.3 mm		133512
25 mm x 98.3 mm		133525
30 mm x 98.3 mm		133530
8 mm x 99.5 mm		without edge
10 mm x 99.5 mm	133506	
12 mm x 99.5 mm	133503	
14 mm x 99.5 mm	133501	
15 mm x 99.5 mm	133507	
16 mm x 99.5 mm	133508	
18 mm x 99.5 mm	133502	
25 mm x 99.5 mm	133509	
30 mm x 99.5 mm	133510	



FUSIONIS DISC

CoCrMo milling disc for the production of fixed and removable dentures. The alloy properties, the quality and excellent milling results make Fusionis Disc the material of choice. The ideal material for the unique manufacture of removable partial dentures with clasps and retainers, telescope dentures, bars and attachments in CAD/CAM processes.

- Free of nickel, beryllium, cadmium and lead
- Type 4 according to DIN EN ISO 22674
- Composition in percent by mass
Co: 63 % Cr: 29 % Mo: 5 % C, Si, Nb, Mn, Fe: <1 %

ADVANTAGES FOR DENTAL TECHNICIANS:

- Excellent machinability, validated process
- Ideal mechanical properties
- Average hardness of 290 HV 10
- Biocompatible and corrosion-resistant
- Easy to work with and very easy to polish
- Laser weldable
- Suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp0.2)	420 MPa	Vickers hardness	290 HV 10
Ultimate tensile strength	650 MPa	Density	8.3 g/cm ³
Elongation	10 %	Laser weldable	Ja
Elastic modulus	210 GPa	Type (DIN EN ISO 22674)	4

VERSION	EDGING	REF
18 mm x 98.3 mm	with edge	141118
25 mm x 98.3 mm		141125
18 mm x 99.5 mm	without edge	141018
25 mm x 99.5 mm		141025

