



STARBOND Ti5 DISC

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

- › Compliant with ISO 5832-3 and ASTM F136
- › Composition in percent by mass:
Ti: 89,4% Al: 6,2% V: 4% N,C,H,Fe,O: <0,4%

ADVANTAGES FOR USERS:

- › Ideal mechanical properties
- › Excellent bonding with ceramics for titanium
- › Biocompatible
- › Extremely corrosion resistant
- › Particularly patient friendly due to low thermal conductivity
- › Perfect suitable for implant-supported restorations, superstructures, bars and abutments

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	837MPa	Density	4,4g/cm ³
Ultimate tensile strength	921MPa	Melting range	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

SIZES	EDGING	REF
8mm x 98,3mm		136508
10mm x 98,3mm		136510
12mm x 98,3mm		136512
13,5mm x 98,3mm		136513
15mm x 98,3mm	with edge	136515
16mm x 98,3mm		136516
18mm x 98,3mm		136518
25mm x 98,3mm		136525
30mm x 98,3mm		136530
8mm x 99,5mm		without edge
10mm x 99,5mm	136010	
12mm x 99,5mm	136012	
14mm x 99,5mm	136013	
15mm x 99,5mm	136015	
16mm x 99,5mm	136016	
18mm x 99,5mm	136018	
25mm x 99,5mm	136025	
30mm x 99,5mm	136030	

STARBOND Ti4 DISC

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

- › Compliant with ISO 5832-2 and ASTM F67
- › Composition in percent by mass:
Ti: >99% N,C,H,Fe,O: <1%

ADVANTAGES FOR USERS:

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

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	504MPa	Density	4,5g/cm ³
Ultimate tensile strength	599MPa	Melting range	1645-1660°C
Elongation	23,5%	CTE (20-600°C)	9,7 x 10 ⁻⁶ K ⁻¹
Vickers hardness	>200HV5/30	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm		135508
10mm x 98,3mm		135510
12mm x 98,3mm		135512
13,5mm x 98,3mm		135513
15mm x 98,3mm	with edge	135515
16mm x 98,3mm		135516
18mm x 98,3mm		135518
25mm x 98,3mm		135525
30mm x 98,3mm		135530
8mm x 99,5mm		without edge
10mm x 99,5mm	135010	
12mm x 99,5mm	135012	
14mm x 99,5mm	135013	
15mm x 99,5mm	135015	
16mm x 99,5mm	135016	
18mm x 99,5mm	135018	
25mm x 99,5mm	135025	
30mm x 99,5mm	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 and abutments. Starbond Easy Disc is based on a proven veneering alloy already used in conventional casting technique.

- › Free of nickel, beryllium, lead and cadmium
- › Type 4 pursuant 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 USERS:

- › Medium hardness of 289 HV 10
- › Excellent metal-ceramic bonding
- › Biocompatible
- › Easy polishing
- › Laser weldable
- › Dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	416MPa	Density	8,6g/cm ³
Ultimate tensile strength	663MPa	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	191GPa	Laser weldable	Yes
Vickers hardness	289 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	140508
10mm x 98,3mm		140510
12mm x 98,3mm		140512
13,5mm x 98,3mm		140513
15mm x 98,3mm		140515
16mm x 98,3mm		140516
18mm x 98,3mm		140518
20mm x 98,3mm		140520
25mm x 98,3mm		140525
30mm x 98,3mm		140530
8mm x 99,5mm	without edge	140008
10mm x 99,5mm		140010
12mm x 99,5mm		140012
14mm x 99,5mm		140013
15mm x 99,5mm		140015
16mm x 99,5mm		140016
18mm x 99,5mm		140018
20mm x 99,5mm		140020
25mm x 99,5mm		140025
30mm x 99,5mm		140030



MOGUCERA C DISC

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

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

ADVANTAGES FOR USERS:

- › Medium hardness of 288 HV 10
- › Excellent metal-ceramic bonding
- › Biocompatible
- › Easy to work with and very easy to polish
- › Laser weldable
- › Suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	413MPa	Density	8,3g/cm ³
Ultimate tensile strength	597MPa	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	206GPa	Laser weldable	Yes
Vickers hardness	288 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	138108
10mm x 98,3mm		138110
12mm x 98,3mm		138112
13,5mm x 98,3mm		138113
15mm x 98,3mm		138115
16mm x 98,3mm		138116
18mm x 98,3mm		138118
20mm x 98,3mm		138120
25mm x 98,3mm		138125
30mm x 98,3mm		138130
8mm x 99,5mm	without edge	138008
10mm x 99,5mm		138010
12mm x 99,5mm		138012
14mm x 99,5mm		138013
15mm x 99,5mm		138015
16mm x 99,5mm		138016
18mm x 99,5mm		138018
20mm x 99,5mm		138020
25mm x 99,5mm		138025
30mm x 99,5mm		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 and abutments.

- › Free of nickel, beryllium, lead and cadmium
- › Type 4 pursuant 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 USERS:

- › Excellent CTE of 14.2 ensures flexibility in ceramic selection
- › No cooling phase required, depending on the ceramics
- › Easy polishing
- › Excellent metal-ceramic bonding and high biocompatibility
- › Laser weldable
- › Dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	441MPa	Density	8,8g/cm ³
Ultimate tensile strength	639MPa	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	235GPa	Laser weldable	Yes
Vickers hardness	281 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	133514
10mm x 98,3mm		133516
12mm x 98,3mm		133513
13,5mm x 98,3mm		133511
15mm x 98,3mm		133517
16mm x 98,3mm		133518
18mm x 98,3mm		133512
25mm x 98,3mm		133525
30mm x 98,3mm		133530
8mm x 99,5mm		without edge
10mm x 99,5mm	133506	
12mm x 99,5mm	133503	
14mm x 99,5mm	133501	
15mm x 99,5mm	133507	
16mm x 99,5mm	133508	
18mm x 99,5mm	133502	
25mm x 99,5mm	133509	
30mm x 99,5mm	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, lead and cadmium.
- › Type 4 pursuant to DIN EN ISO 22674.
- › Composition in percent by mass:
Co: 63% Cr: 29% Mo: 5% C,Si,Nb,Mn,Fe: <1%

ADVANTAGES FOR USERS:

- › Excellent machinability, validated process
- › Ideal mech. properties and a medium hardness of 290 HV 10
- › Extremely corrosion resistant and biocompatible
- › Excellent polishability and easy to use
- › Dry and wet milling, laser weldable

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	420MPa	Vickers hardness	290 HV 10
Ultimate tensile strength	650MPa	Density	8,3g/cm ³
Elongation	10%	Laser weldable	Yes
Elastic modulus	210GPa	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
18mm x 98,3mm	with edge	141118
25mm x 98,3mm		141125
18mm x 99,5mm	without edge	141018
25mm x 99,5mm		141025

