



SINTERMETALL

Dimensionally stable material milled in your own laboratory



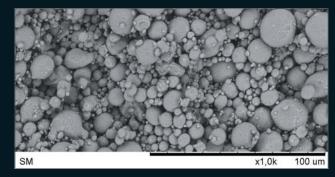
SINTERMETALL

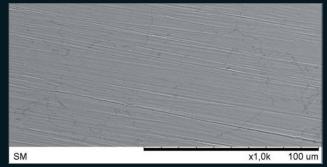
The cobalt-chromium blanks (non-precious metal) are highly pre-compressed and slightly sintered. This permits to mill all dental restorations using a pre-sintered material. Thanks to the shrinkage factor of just 7%, the material's torsional stability during the sintering process is very high. Like this, all milled dental restorations (full-arch bridges, single crowns, metal frameworks, telescopic crowns, bars, attachments) can be sintered with a total lack of stresses.

Properties at a glance:

- High performance cobalt-chromium alloy
- Neither distortions nor stresses in the metal frameworks
- No impurities in the metal structure
- High tensile strength thanks to the material's compact structure and smooth surfaces (Cobalt-based dental alloy, Type 5, according to DIN EN ISO 22674)
- High edge stability
- The CAD/CAM system used does not need to be upgraded for the material elaboration
- Oxygen-free sintering under high vacuum with one of the following furnaces: the Zirkonofen 700 Ultra-Vakuum, equipped with a special sintering adapter (no additional furnace is required), or the Sinterofen 300S
- Sintering without shielding gas; no residual oxides
- Due to perfect temperature distribution in the furnace, it is possible to manufacture bridges with up to 14 units
- Milling time per unit depending on milling unit: ca. 15 minutes
- Electroplating to reduce the grey value of zirconia secondary structures
- Faster than the casting technique

Surface image made with a scanning electron microscope

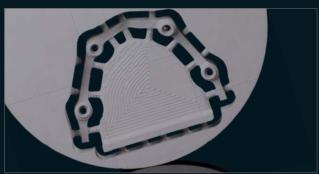




Slightly sintered Densely sintered

PERFECT STABILITY







Stable substructure for zirconia, resin and ceramics. It can be electroplated

Bar milled in a Sintermetall 95H10 blank

SINTERING WITHOUT RESIDUAL OXIDATION



Combustion chamber of the Zirkonofen 700 Ultra-Vakuum sintering furnace for up to 120 zirconia and 25 Sintermetall elements.



Combustion chamber of the Sinterofen 300S sintering furnace for approximately 50 Sintermetall elements; it is possible to sinter 2 full-arch bridges or 6 bars in one process.

ACCESSORIES

Zirkonofen 700 Ultra-Vakuum sintering furnace



Sintering Tray Sintermetall (ZBAC2186)

Tray for the sintering of Sintermetall structures with up to 5 elements in the Zirkonofen 700 Ultra-Vakuum sintering furnace; total capacity: 25 elements



Sintering Holder (ZBAC2188)

Suspension device for sintering Sintermetall jobs with at least 6 elements fixed with the Bar Carrier and the Bar Carrier XL

Sinterofen 300S sintering furnace



Sintering Tray Sintermetall XL 300S (ZBAC2187)

Tray for sintering Sintermetall jobs with up to 5 elements in the Sinterofen 300S sintering furnace. Total capacity: 50 elements



Sintering Holder XL 300S (ZBAC2189)

Suspension device for sintering Sintermetall jobs with at least 6 elements, fixed with the Bar Carrier and the Bar Carrier XL



Bar Carrier (ZBAC3801)/ Bar Carrier XL (ZBAC3811)

Fixing device for 1 or up to 3 bars in the Sintering Holder and Sintering Holder XL 300S



Sintering Platform XL (ZBAC3871)

To equip easily the Sintering Holder XL 300S and to arrange well all required sintering components



Sintering Powder Supreme (ZBAC3831)

Sintering powder for sintering Sintermetall without residual oxides



Insert Tray Supreme Extended (ZBAC3841)

To place small Sintermetall structures and Sintering Powder Supreme in the Sintering Holder XL 300S; small and large structures can be sintered in one process

THE MATERIAL

Deformation resistant sinter metal for the manufacture of structures ranging from single crowns to 14-unit bridges, metal frameworks, telescopic crowns, bars, dowels and attachments in one's own laboratory.

Dry processing with all Zirkonzahn milling units (except M1 Abutment milling unit) using CAD/CAM Milling Burs Sintermetall; electroplating as well as veneering with ceramics is possible (consider CTE value).



Zirkonzahn Sintermetall blank	Height	Item number
Hillion to the second s	95H10	MEAD0610
	95H12	MEAD0612
	95H14	MEAD0614
	95H16	MEAD0616
	95H18	MEAD0618
	95H20	MEAD0620
	95H22	MEAD0622
	95H25	MEAD0625
	95Н30	MEAD0630



SINTEROFEN 300S

SINTERING FURNACE FOR SINTERMETALL



- High vacuum pump for oxygen-free sintering
- Sintering without shielding gas; no residual oxides
- Large combustion chamber for around
 50 Sintermetall elements
- With the special Sintering Holder XL 300S it is possible to sinter 2 full-arch bridges or 6 bars in just one sintering cycle
- Automatically controlled cooling
- Modern high quality full glazing
- 4,3" colour touchscreen control panel showing the sintering process and remaining time
- USB port for updates
- Low maintenance, very robust

HUMAN ZIRCONIUM TECHNOLOGY

Zirkonzahn Worldwide - Tel +39 0474 066 680 - info@zirkonzahn.com - www.zirkonzahn.com

ZIRKONOFEN 700 ULTRA-VAKUUM

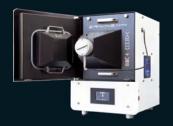
SINTERING FURNACE FOR ZIRCONIA AND SINTERMETALL



Zirkonofen 700 Ultra-Vakuum sintering furnace



Sinter Metal Furnace Adapter



Zirkonofen 700 Ultra-Vakuum with Sinter Metal Furnace Adapter

