

Zirkonzahn®

Human Zirconium Technology

SINTERMETALL

The 100 % dimensionally stable material milled in your own lab



PRETTAU® ANTERIOR® CROWNS ON A GOLD PLATED SINTERMETALL FRAMEWORK

A fictitious patient case of an edentulous maxilla with four implants was the basic situation of the described restoration. We decided to create a Toronto Bridge made from the dimensionally stable Sintermetall with zirconia crowns out of the highly translucent Prettau® Anterior®. The gingiva was intended to be layered with Gingiva-Composites. Initially, based on the digitized implant situation, we modelled the Sintermetall framework and milled it with the M1 Soft Milling Unit with connectors and sintering stabilizer to avoid warpage in the framework during the sintering process. Finally, we sintered the structure in the Zirkonofen 700 Ultra-Vakuum sintering furnace with high vacuum. Subsequently, we neatened up the then hard Sintermetall structure and polished it. By gold plating the structure, we reduced its grey scale value to avoid any grey shining through under the zirconia structures. After this, we scanned the Sintermetall structure and used it as basis for the single crowns. For this we chose the Cut-Back design of the virtual tooth template “Thalia” in our “Heroes Collection” tooth library and milled the crowns in Prettau® Anterior®. We manually coloured the crowns with Colour Liquid Prettau® Anterior® Aquarell, sintered them in the Zirkonofen 700 Ultra-Vakuum sintering furnace, veneered them with ceramics and personalized them with ICE Zirkon Stains. Finally, we fixed the highly translucent single crowns on the Sintermetall framework and layered the gingiva with Gingiva-Composites.





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