

Zirkonzahn®

Human Zirconium Technology

SINTERNIT

The 100 % dimensionally stable material milled in your own lab



PRETTAU® 4 ANTERIOR® CROWNS ON A GOLD-PLATED SINTERNIT 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 Sinternit material (cobalt-chrome alloy) with zirconia crowns made of the highly translucent Prettau® 4 Anterior® zirconia. The gingiva was intended to be layered with composites. Initially, based on the digitised implant situation, we modelled the metal framework and milled it with the M1 Soft Milling Unit with connectors and sintering stabiliser 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 hard Sinternit structure and polished it. By gold-plating the structure, we reduced its grey scale value to avoid any grey shining through under the zirconia crowns. After this, we scanned the metal framework and used it as basis for the single crowns. For the crowns, we chose the “Thalia” natural tooth set with cut-back design from the Heroes Collection virtual tooth library, then we milled them in Prettau® 4 Anterior® zirconia. We manually coloured the crowns with Colour Liquid Prettau® 4 Anterior® Aquarell, sintered them in the Zirkonofen 700 Ultra-Vakuum sintering furnace, veneered them with ceramics and personalised them with ICE Stains. Finally, we fixed the highly translucent single crowns on the Sinternit framework and layered the gingiva with composites.





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